who ought to know perfectly well what does really happen. I do not think it is necessary to introduce any remedy for this in the Bill, but I am perfectly prepared to remedy it by a rule setting forth that in any case in which an application is made to the Government of Bengal for direction to demolish these jetties, no order shall be passed upon it until an opportunity has been given to the persons concerned of being heard. And, so far as I am myself

concerned, I pledge this Government to carry that out.

"We have received, besides the memorial from the Chamber of Commerce, morial from the British Indian Association. That memorial covers a very a memorial from the British Indian Association. large area of ground; it goes into the question of the rights of riparian owners all over Bengal. Now, I say emphatically that the questions raised by the British Indian Association do not arise in connection with this question. The question is a very difficult one, and may be a very important one; but this Bill at all events is not the occasion on which to discuss it. It does not arise necessarily out of anything in this Bill, and 'sufficient to the day is the evil thereof.' When the time comes for raising the discussion, I have no doubt the British Indian Association will put their views before us in full form and with full force. But as I said before, after giving their memorial all consideration, I find that really it at no point touches the question that now comes before us.

"The only question remaining is, that as between the amendment proposed by the Hon'ble Mr. Moore and the amendment proposed by the member in charge of the Bill. I am bound to say that the alterations which the Hon'ble Mr. Moore has now made in his amendment, have taken away a very considerable amount of objection to it. But, on the whole, I think that the Hon'ble Sir Henry Harrison's amendment is, if not in appearance, in reality more liberal, because it does not pretend to define the circumstances under which compensation may be claimed as the Hon'ble Mr. Moore's does; and I think the Hon'ble Sir Henry Harrison's amendment the more convenient one and a better drafted

one, and I myself prefer it."

The Hon'ble Ms. Moore moved that the following revised section be substituted for section 85 of the Bill:-

"85. In case any wharf, quay, stage, jetty, pier, erection or mooring may have been or hereafter shall be, made, erected, or fixed within or without high-water-mark without the limits of the port, and thereafter the limits for the time being of the port shall be extended so as to include the place on which such wharf, quay, stage, jetty, pier, erection or mooring shall have been made, erected, or fixed, it shall be lawful for the Commissioners, when in the opinion of the Local Government the safety of navigation, or the improvement, maintenance or good government of the port so requires, to remove, fill up, or destroy such wharf, quay,

stage. jetty, pier, erection or mooring:

Provided that when any such work has, under this section, been so dealt with, the Commissioners shall, when such work was made in behalf of the public for the convenience of public traffic, make or provide for the use of the public such sufficient wharves, quays, stages, jettice, piers, erections or moorings as the Local Government may direct, and shall, when such work

was lawfully made by any private person for the convenience of private traffic—

(a) on land belonging to the Government, with the previous consent of the Local Government in writing, or of which the making, erecting, or fixing has been subsequently sanctioned by the Local Government in writing; or

(b) on land belonging to the private owner, whether acquired by grant from the Government, or by prescription, or otherwise,

make compensation therefor to the owners thereof to such an amount as may be determined by agreement by and between the Commissioners and such owners, or by the Civil Court in which a suit may be brought to establish and enforce such right of compensation."

The amendment being put, the Council divided :-

The Hon'ble Raja Rameshwar Sing Bahadur. The Hon'ble H. Pratt. The Hon'ble C. H. Moore, The Hon'ble F. B. Peacock.

Noes.

The Hon'ble Dr. Rash Behary Ghose. The Hon'ble Shahzada Mahommed Furrokh Shah. The Hon'ble Sir Alfred Croft. The Hon'ble Sir Henry Harrison. The Hon'ble T. T. Allen. The Hon'ble P. Nolan. The Hon'ble Sir Charles Paul. His Honour the President.

So the Motion was lost.

The Hon'ble SIR HENRY HARRISON'S amendment that, for section 85 of the Bill, the section as proposed by him be substituted, was put to the vote and agreed to.

The Hon'ble Mr. Nolan, by leave of the Council, withdrew the following motion of which he had given notice:—

'That the existing law on the subject, as contained in section 57 of Act V of 1870, be left unaltered. Section 85 of the Bill will then run as follows:—

'In case any wharf, dock, quay, jetty, pier, erection or mooring shall, after the seventeenth day of October, 1870, without the consent in writing of the Lieutenant-Governor of Bengal, have been fixed, excavated, erected, or built below high-water-mark without the limits for the time being of the port, and thereafter the limits of the port shall be extended so as to include the place in which such wharf, dock, quay, jetty, pier, erection or mooring shall have been fixed, excavated, erected or built, it shall be lawful for the Commissioners to remove, fill up, or destroy such wharf, dock, quay, jetty, pier, erection or mooring without making any compensation therefor.'

The Hon'ble SIR HENRY HARRISON moved that, between sections 85 and 86 of the Bill, the following section be inserted:—

'85 A. Whenever any wharves, quays, stages, jetties, piers, erections or moorings have, under the last preceding section, been removed, filled up, or destroyed, the Commissioners shall make or provide for the use of the public such sufficient and convenient wharves, quays, stages, jetties, piers, erections or moorings in the place of those that may be removed, filled up, or destroyed, as the Local Government may direct.'

The Motion was put and agreed to.

The further consideration of the Bill was postponed till the next sitting of the Council.

The Council adjourned to Saturday, the 22nd February, 1890.

CALCUTTA;

C. H. REILY,

Assistant Secretary to the Govt. of Bengal, Legislative Department.

The 20th February, 1890.

Rainfall, Weather, and State and Prospects of the Orops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 22nd February, 1890.

		24 2 12		Rainfall	
1000	No		and date of aca.	at Sudder Station in inches.	
	(ESSA)	The state of			Trainer at the Contract of the
J	ENC	11	Printed also		
			Districts.		
	1	1 Burdwan	Feb. 22, '90	Nit	Weather—rather warm. Prospects of rabbi crops favourable. Sugarcase pro- mining. Potato almost fair. Prices of common rice:— Srs.
		25			Burdwan 18 Culna 16 Cutwa 16 per rupee
	1				Ranigunge 20)
		3 Bankoora	,, 22, '90	Nil	Weather—getting warm. Rubbi crops coming on well; a ten-anna outturn is expected. Pressing of sugarcane proceeds; outturn 134 annas. Common rice 19 seers per rupes at Sudder and 20 seers at Bisheuporo.
1	, A. W.	3 Birbbum	,, 22, '90	Nil	Weather-warmer. Prospects of crops fair. Common rice selling at 17 to 20 seers per rupee.
7			is .		
Been was an Trans		4 Midnapur	, 22, '90	Nil	Weather—getting warm. General prospects good. Rubbi being gathered in the Sudder subdivision. Prospect fairly good. Indigo doing well. Prices of rice:—
å		1			Sudder 18
					Tamluk 26 per rupee.
	1.			75711	Ghatal 20
	1	Hooghly	,, 22, '90	NII	Weather—seasonable. Rubbi yielding good outturn. Prices of ecaumon rice:—
	1				Sm. Sm. 124)
					Serampore 14 per rupee.
		Howrah	,, 22, '90	Nil	Weather—warm in the day, cool at night. Transplantation of boro paddy completed. Prospects good. Prices of common rice:—
		Central D	istriots.		Howrah 12t per rupee 16
	1 6	24-Pergbs.	Feb. 22, '90	Nil	Weather—sensonable. Good sman crop has been harvested. Winter crops are being harvested, and promise well. Boro rice doing well. Price of common rice 16 sears per ropes.
DIVE.	7	Nudden	,, 22, *90	Nil	Weather—seasonable. Prospects of crops on the ground favourable. Linseed, mustard, and tobacco being harvested. Cultivation of land for see going on. Sain wanted.
RREIDERET DIVE.	8	Khoolna	,, 22, '90	Nil	Weather—warm during the day, but cool at night. State of boro and rubbi crops fair.
PRREE	9	Jessore	,, 23, '90	Nil	Weather—days hot, but nights cold. Ploughing of rice lands and barvesting of winter crops going on. Outturn of linesed expected to be 12 annse. Prices of rice stationary.
	10	Moorshedahad	., 22, '90	Nii	Weather—cool and clear. Rubbi harvesting has begun.
	11	Dinagepur	., 22, '90	NO 1	Weather—days hot, but nights cool. Harvesting of sman rice nearly over. Land is being ploughed for bhados. Harvesting of winter crops and present
	12	Rajshahye	., 22, '90	NII Y	ing of sugarcane continue. Weather—hot is the day, but cool at night. Harvesting of omes paddy over in the Nattore subdivision with an average outturn of 10 annas only. Properts of subbi crops good generally. Ganja manufacture continues at
	18	Rangpur	,, 22, '90	Nil 1	Nowgong. Rice sells at 17 seers 2 chittacks per rupee. Veather—hot days, but cool nights. Mustard is being gathered with a fair outturn. Other standing crops are promising. Ploughing operations are
TE DIVE.	14	Bogra	22, '90	Nii V	in active progress. Venther—scasonable. Land is being ploughed for one paddy and jute. State of standing crops (such as peas, linseed, gram, &c.) reported to be good.
HABLE	15	Pubna	,, 22, '90	Nil V	Common rice selling at 22 seers per rupee. Veather—neasonable, Mustard and tobacco expected to be 12-annas crops.
5540	16	Darjeeling	,, 23, '90		Sogaronne deficient. Rain wanted, especially for cheese and keon- Feather—fair. Wheat and barley progressing favourably. In Terai, land is being prepared for bhadot crops and jute. Price of common rice continues the same as in last week, viz.,—
	17	Julpigoree	., 28, '90	NII W	Darjeeling

	No.	District and return		Rainfall at audder Station in inches.	
-				1	
-	NUA	L-concluded.			14
		Eastern Di	180	1 -11-1	
1	18	Ducca	Feb. 22, '90	Nil	Weather—days getting warm, but nights cool. Winter crops doing well. Cheesa and kaon being sown. Mustard and sugarcans being cut. Fodder is available. No special change in the prices of food-grains. Common rice 18 to 144 seers per rupes.
DACCA DIVE.	10	Furre-dpur	,, 23, '90	Nit	Weather—growing warm; night of 17th especially sultry. Mustard nearly picked; outturn 10 annas. Other rabbi crops promise fairly, as also just rice. Cultivation for case rice and til in progress. Sugarcane and date-inice being made into mol-sees. Coarse rice selling at 16 seers per rupes at Sudder and Goalundo, and at 15 seers per rupes at Madaripur.
	30	Backergunge	, 22, '90	NII	Weather—sessonable. Prospects of rubbs crops good. Rein wanted. Common
	21	Mymonningh	,, 22, '90	Nil	rice sells at 14 seers a rupee. Weather—sessonable. Cultivation of one and jute in some lands has begun Mustard in still being cut. Pulses, viz., mag, khesari, and mater kales
					ripening. Coarse rice is being sold at 13 seem 14 chittacks per rupes.
KA	22	Chittagoug	,, 23, '90	Nil	Weather—seasonable The state of winter crops good, but rain is wanted in the south, where weather is reported unsettied.
CAIRTABUNG DAYS	28	Noskholly	,, 23, "90	Nil Nil	Weather getting warm; occasionally cloudy. Harvesting of rubbi crops and ploughing of land for our commenced. Eath wanted in some places. Price of rice stationary.
CHIERA	24	Tippernb	,, 22, '90	NII	Weather warm for this time of the year. Chillies being reaped. Other winter crops (pulses, &c.) thriving. Rice selling at from 14t to 16 seers per rupee.
	25	Chittagong Hill Tracts.	,, 21, '90	Nil	Weather—cold in the morning throughout the week. Gathering of mustard con- tinues; outturn estimated at about 6 annas. Tobacco and chillies doing well. Jumenting has commenced in some places. Best and middle class rice selling
BE	HAR.	Hill Tippersh	,, 22, *90	Nil	at 12 seers 5 chittacks and 13 seers 16 chittacks per rupee respectively. Weather—getting warm. Sugarcane and tobacco still being cut. Mustard being gathered. Jame still being cleared in the hills.
	26	Petus	, 22, '90	Nil	Weather days warm, but nights cool. Wheat and barley have not yet ripened. Other spring coops are being respect. Collection of opium continues. Prospects favourable. Prices of food-grains almost stationary.
	27	Gya	,, 23, '90	Nil	Weather—getting warm in the day. Rabbi crops arriving to maturity. Mustard, maseri, and gram being resped. Extraction of opium going on. Food-stocks sufficient.
IAN.	118	Shahabad	., 22, '90	Nil	Weather—days hot, nights still cool. Pulses being gathered with fair outturn. Other rubbi crops promising Prospects of opium crop good. Prices of food-grains stationary.
PATNA DIVN	29	Durbhunga	,, 22, '90	NII	Weather—days getting warm. Wheat, barley, and lineed approaching maturity; outturn estimated at 12 annas on an average. Poppy blossoming, and prospects continue good. Mustard being reaped. Mango trees are abundantly in flower. Common rice selling at 194 seers per rupec.
	30	Meanflerpur	., 22, '90	Nil	Weather—warmer with west wind. Condition and prospects of rubbi crops good. Outturn of mustard from 12 to 16 annes.
	31	Sarun	,, 22. '90	Nil	Weather—getting hot. Rabbi and poppy crops doing well, and give favourable prospect. Lands in churs are being prepared for paddy.
	32	Chumparus	,, 22, '90'	Nii	Weather—bright and warm; occasionally stormy with high west wind. Rubbi riponing; reaping will commence in the next fortnight. Poppy well in flower and keeping healthy.
	33	Monghyr	, 22 '90	Nil	Weather—seasonable. Harvesting of mustard and pulses going on Wheat and barley ripening. Indigo being sown in the Beguseral subdivision. Prices of food-grains almost stationary. Weather—getting warmer. It is now too late for rain to do good, and the
Dira.	84	Bhagulpur	,. 22, '90	Nil	rubbi crop must be a light one. Cercais on dearahs may yield 10 to 12 annas, but on high lands will be below 8 annas. Pulses very fair. Mango blossome profuse.
BRASTLFORE DIVE	18.5	Purneah	,, 22, '90	Nil	Weather—days rather warm with west wind. Tobacco being gathered. All rwbbi crops doing well. Ploughing going on.
TANK.	36	Maldah	, 22, '90	NII	Weather—days getting warmer, but nights still cool. Gathering of kalai and mustard over, except in one or two places. The outturn is expected to
Ba				. *	average about 12 annas, but from thanas Gumashtapur and Bholahat it is reported to be about 8 annas. Transplantation of boro paddy going on; is some places the plants are up. Prospects of other standing crops good, but damage is apprehended for want of rain. Common rice selling at an average.
1	87	Southal Perghe.	., 22, '90	Nii	of 18 seers per rupee. Weather—becoming warmer. Fubbi crops doing well. Bore paddy being planted. Mango trees full of blossom.

2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	No.	District aretu		ef		Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
)R	ISSA.						
	1 38	Cuttenck	Feb.	22,	190	Nil	Weather-fine. Tobacco doing well. General prospects continue good.
		36 100					
	39	Poaree	90	21,	*90	Nil	Weather—scasonable. Threshing of winter crop (late sered) still continues. Dalas crop has come up in places. Prices of rice stationary.
-	40	Balasers	**	23,	.00	NII	Weather-warm for the time of year. Embls crops doing fairly welk.
		NAGPORE. - West Prontice Hasaribagh	Feb.			NII	Weather—seasonable. Fall rubbi erop expected except in Chowparun. Poppy prospects favourable.
1	43	Lohardugga		22,	'90	Nil	Weather—days hot, mornings cool. Prospects of rubbi crops favourable at head- quarters. In Palamow, wheat tolerably developing; museour, peas, and mustard being harvested; rubbs greatly damaged by frost.
1	43	Singbhoom	94	22,	'90	Nu	Weather-warm. Pulses, oilseeds, and wheat all thriving. Full crop expected.
	44	Manbhoom	84	22,	'90	NII	Weather-hotter. Spring crops doing well, except eries, of which the outturn is estimated to be from 8 to 10 annas.
	-				-)		

Published for general information.

OALGUTTA; REVENUE DEPT., The 25th February, 1890.

P. NOLAN, Beey, to the Govt. of Bengal. PEIUES-CUBERNT (RETAIL) OF POOD-GRAINS, FIREWOOD AND SALT IN THE HEAD-QUARTER STATION BAZARS OF THE DISTRICTS OF BENGAL DURING THE FORTNIGHT ENDING THE 16th FEBRUARY 1890.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the

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At Rampore Haut retail prices of salt 10 coers per rupes.

In subdivisions retail prices of salt per rupes are:—Ghattal 10g coers, Tumicok 8 coers, and Contai 9 coers.

In subdivisions retail prices of salt per rupes are:—Surampore 10 coers and Johanabad 10 coers.

In subdivisions retail prices of salt per rupes are:—Baraset 9 coers, Basirhat 9 coers, Diamond Harbour (at Magrabet) 10 coers, Barrackpore 9 coers 2 chittacks, and Dum-Dum 10 coers.

In subdivisions retail prices of salt per rupes are:—Kocchtea 10 coers, Meherpore 10g coers, Chocadanga 9 coers, and a subdivisions retail prices of salt per rupes are:—Satkhira 9 coers and Bagirhat 8 coers.

In subdivisions retail prices of salt per rupes are:—Satkhira 9 coers and Bagirhat 8 coers.

In subdivisions retail prices of salt per rupes are:—Jhoulda 9 coers, Magura 9g coers, Narail 9g coers, and Boagong 10 coers.

In subdivisions retail prices of salt per rupes are: Lalbagh 10g coers and Kandi 1 g coers, Narail 9g coers, and Boagong 10 coers.

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Head-quarter Station Bazars of the Districts of Bengal on the 15th February 1890 ...

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In Thakurpaon subdivision rotall price of salt 8 seers per rupos.

In subdivisions retail prices of salt per rupee are :- Nattore 9 seers and Nowgong 8 seers 11 cultiacks.

Linguidizations retail prices of salt per rupee are :- Nilphamari 9 seers, Kurigram 9 seers, and Gaibanda 8 seers.

At 8 rajguage rotall price of salt 10 seers per ruper.

At Sifiguri wholesale price of sait Rs. 4-4 per maund.

In subdivisions retail prices of salt per rupes are: —Maulckgunge 8 seers, Moonshoogunge 8 seers 14 chittacks, and Naraingunge 10 seers.

In aubdivisions retail prices of salt per rupee are :—Patuakhali 2 seers, Bhola 2 seers, and Perceopere 2 seers.

In aubdivisions retail prices of salt per rupee are :—Kishoragunge 2 seers, Jamaipure 10 seers, Shorepore 3 seers, as

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the Head-quarter

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CALCUTTA, The 25th February, 1890.

At Fonny Hat retail price of salt 8 sours per rupes.

The undivisions retail prices of salt per rupes are: —Bexar 10; seers, Sassurate 10; seers, and Bhabuah P; seers.

Ch Sanastapore in the Tapper and substraint retail price of salt 11 see s per cop s.

In sub-invisions retail prices of salt per rupes are: —Hajipore 9; seers and Sitamarhi 10 seers.

At Settion retail price of salt 9; seers per rupes.

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In subdivisions rotati prices of salt per rupus are:—Beguserai 93 seers and Jamui 9 seers. At Kishengunga retail price of salt 3 seers per rupes. In the Khoordah substitution rotail price of salt 11 seers per rupes. At Bhudruck retail price of salt 9 seers per rupes. At Govindpore retail price of salt 9 seers per rupes.

Published for general information.

PRICES-UUBBENT (wholesale) of Food-grains, Firewood, and Salt

						W	H B.	AT.								BA	M.H.	r,					E	RIOE	, BEI	ar e	OBT						Ra) , (E	OOM	MON	l,		
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CALCUTTA, The 25th February, 1890.

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in the undermentioned Marts of Bengal on the 15th February 1890.

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				+4	I.			olike i						- 6	1					18-			*-			***						441			141		3	6	0	3	6	0	3	6	0	Pooree.
94	10	. 0	1 2	2	8	0	2	0	0					. 500					2	12	U	2	12	0	3	0	0	0	B	01	Ú	8	U.	0	8	0	3	12	0	3	12	0	33	12	0	Cuttack.

Published for general information.

P. NOLAN, Secy. to the Goot. of Bengal.

Meteorological Report of the Province of Benga

										9	TATIO	1N 01	MERY.	ATIO	NS.			
				4	ER PREM	URE.	W	mr.					TRE	PHRA	TURE			
	Diern	ICT.	Representation,	Mean barometric height, 8 a.u.	Mean restroed to	Variation from	Prevailing direc-	Mesn wind we.	Highest during work.		Date.	Louvet during		1 to	Wear forthwan Lemperature.	Mean minimum lemperature of week.	Nean daily tem-	Variation from
Po	aree	pd+	Poorse Gopalpore Faise Point	20°85	17 Ziria s	-169		175 291 297	8612 8612 8616	ENTL	**	65°		Peb.	84'6 82'8 84'5	7 7112 6019		9 -0-25*
Cut	tinek	0-0 1	Cuttack	29'84	HA \$19-1920	_*0ir	Calm	35.7	1161	186h.		OA.			93.0	661	8014	+8.
Ba	lasore	***	Balasore	29158	0 \$97911	- 120		65.5	9614	18th	Feb.	61"	ilich		00.8	63.6	77'9	+81
Sot	th 14-Pergy	idnapol	saugor Isla	nd 29158	29 97,1	-101	'easterly. ' armble	274	86 2	2013:	*1	681	Inth		83:0	d0 8	2014	+21
	inapore	TITLE OF B	Midnapore	29 7G	2 20 P18	-121	Variable	65*3	93.3	1sth		61 :	LBLIs,	tuth	9210	68 6	77'8	
34-1	Pergunnahi		3	dis Asi	O MOMENT	****								[fel)				+61
	wrah		Calcutta	21 58	9 297911	118	Culm	93	68 5	1881	**	89 3	19th	9.1	62.4	64 13	75'0	+34
801	rdwan	***	Burdwan	20.80	4 20 906	- 124	Weste ly	34.3	85.6	194h,	Inth.	87.9	10111	**	MO G	61.5	75.9	+63
Ban	koora	000	Bankoora	29.98-	4 SN 807	-1114	Calm	55.0	9217	15th	*********	5715	158h		90'0	0: 7	75 8	+8 4
	rbheom R Burdwan	100 -1	Ranseguage	291577	7 20.054	-111	NW.	\$3.4	9315	15th		8719	Litth		9014	60°P	75'6	+3 6
	rehedabad	***	Berhampore	. 201633	291908	- 124	2/ W.	4515	91.1	18th	0	55.7	listh	64	6719	50 7	210	+4'0
Nud		000	Knahnaghur	291903	SEELES !	1001	WSW	87.1	8.04	14111	64	51.0	loth		8515	5514	75'3	+3"4
Jess		200 77	E m compare a	21/971	23 906	-1118	Carm	4012	80*7	Isth	44	80°6	- 10 h	1	86.3	00.2	7610	-54
	olna	100 11	Chittagons	29 845	29 1035	- 1095	Westerly	46.0	69:1	Sist		5810	1811),	leth	46 8	02.1		
	tagous Bill	Tracti					1		1		not reg		10000	Pet.	710	US I	73.8	450
	COLEGIES TO		Barrien	. gr:90v	דועיעפ ו	- 1043	Calm	6917	561%	18th		5416	15th	1	8412	03 d	73 9	
	holly	ess s	Nonkholly .	29100	22 77 13	-	Variable	6215	87'0	filst		85°8	16th		85'9	62.0	7216	460
		031 *	. Furredpore.	20× NC 3	297915	- 111	810	617	85%	isth f		97°0	11411		047	161.5	73.2	9.016
Dace		100	Dacon	291976	SU BED	- 1:4	BSW	8879	89/1	18tb	Feb.	हम ह	Little		8616	63.5	76.5	÷ 4 (.
Lippe	rrah	NAT T	Commillab .	29188	20-023	-10v5	H	64°J	PR.22	Plat	41	67 ti	15th		88.0	62'8	73's	+62
Lym	daniane	***	Mymensingle	201847	22774091	- 121	Easterly '	61 2	84'0	Zlat	41	241 4	steth	4,	627	50.9	71'3	+ 6 7
Bogri	•	ber -	Bogra	29/812	29*579	-111	talm	4516	BB.9	isth	**	551	Marks	.	Nu.12	56 2	71.5	+60
hapu	18-	.00 "	derajgunge	29/641	291690	- 125	H, *H	. 217	87 1	lath		82 8	lata	**	BG10	50.1	71.1	+44
lajab	abye	11	Ramporn Beat leab.		50.200	- 104	turable	57 u	98.1	Bili		84 5	ditti		65.6	65 S	71 5	+23
faldı	ah -	144 27	Maidah	291634	211 D 19	- 142	2.W	26 0	55 6	145h	**	8.72	toth •	**	bu ti	Qu'B	102	-
	,	140 11	Dinagepore	29 764	20 200 20 801	-120	Calm	59 6	57:1	Felch	11	50 2	luth	9.1	No ti	53 5	6351 6	+317
ong		100 01	Rumpor	89 77H				20 6	55 4	luth	**	4U n	loth	2.0	Blss" i	85'0	er a	中610
		pe pot	Julpigores	397396	22 60%	-1131	N	67.2	F2*6	196h	**	617.57	into	.,	26.9	63.3	1/4139	+14
arjee	ting Hill Ti	racta	Darposing	\$2.4241	-	-	M 8 M.	141'0	54.6		Both !	SH S	Zist	9 0	3372	3819	43 16	+60
orth	ah Bhagulpor		Parment	29 765	\$5/19/09	'124	Caim	94.4	H4 7	2011,	Mist.	4070	16()	9.1	83 2	61.7	07 6	1.0
	•	da tr	Mozufferporr						Observ		Feli,	ded			1			1
urbh	inega .		Darbhunga	29 732	29 90%	-1122	WeW	Para		18th		1		7	87.2	,	2	. 1
hwsn;	parun	ø	Motibari	89,4629	Zh.nut	- 100	Variable	183'0	66'2			6816	låth,	1911	51'6	80'e	de a	439 II
rus		pu .	Chupra						Obaery	ations:	quioni			Frb.				1
ahal	bad	1 001	D-hren	2919772	20 127	-114	WsW	115 0	9114	Ditte 17th		0.710		}			market 1	0.82
	D84 +	1	Arreh	29 700	200 of F	100	N G	107 7	BG77 1	IOI	64 81	63'4 64'U	S, the	2.0	83 4 83 U	94,A	70'D	+01
70	40		Суь	29 526	20 P30	107	15	99.0	91.2	17th		5015	inth	p »	67 0	10'0	73 6	+45
tpa			Hanking-re	24 716	XD 24/0	-1.13	BW	69 0 1	#6"I		lith hale,	8414	iöth.	Och Peb.	9 2	0.00	70 6	+51
onth outh	Shaguipore	3	Hingulpore	10 72h	£1+16,855a	-120	Calm	18 0	88 7 1	Leffels .	**	4 23	idth	(rel),	867	88 0	71.2	+013
nthe	l Pergunna	b	Denma	29'364	20 915	- 1	NW	68.0	9078 3	let b		83 1	lutb	4+	07:3	87.1	72'5	-
2071	bagh		Hasaribagh	87 875	20 1454	'09/5	W	38714	88 0 1	26h		80 3	isth	00	58.0	80.3	71 4	+5.0
hard	luggs		Rauchne	27:745	29 924	'01/3	Calm	23014	67'1 1	7th	P	86'4	isth A j	wth	86'8	88.9	71'4	+47
agbh			Dryetman	29133n	20/5/80	- 10	unth t	Burn					ŀ	reb.				
				20- 20-		- 14	outherly	3010	9814 2	lint	**	57'2	14ch	11	UU17	61.8	76'0	

Replacation.—Chammery.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the The ham ditty of the almosphere is expressed at percentage, actualled air being presented by int. A clear sky is denoted by a mit an overage as the current means or average of the reinfall in that district determined from the returns ont in by the cultivateness attains for the period in quasion during statements the district canding in returns divided by the number of stations. A rainy day is one on which at least faunt countries.

the week ending Friday, the 21st of February 1890.

							DIMIN	101 086	MEVATI					
	amount week.		dhan and					RAIS	PALL.					
	cloud am	of a go	(19 4	PER.	Hine	n lat of mo	nth.	-	e lõth Maj	y 1889.	namber days.	day s.	Representative	District.
	Average ci	Rainfall of week observing station.	Wenn for dustriet.	Normal mean.	Mess for datnet.	Normal mean,	Variation.	Mean for district,	Normal meán.	Variation.	Average number of rang days.	Normal num of raing day		
5	1.0	Nii Nii Nii	Nii	0'81	NII	0.60	-0.40	76'94	861.32	+18'03	0.0	014	Pourso Gapstpore Paine Point	Pooree
9	9'4	Nil	Nal	0.30	Nil	0.73	-0.73	66139	62'71	+ 13*68	0.0	0.4	Cuttack	Outtnek
Ú	0	Nil	Nii	0.72	Nil	0.88	- 0.82	40'96	54'13	- 4'17	0.0	0.4	Balasare	Halasore
	0.6	Mil	Nii	0"18	2001	1.10	-110	54'57	63-67	-6'90	0.0	0.4	Sausor leisad	South-West Midneson
,	a	Nil	NII	0.71	Nil	0.81	-0'81	46139	82 36	-6'96'	0.0	0.8	Midnapore	Miduspore
	ord	Nil	Nil	0.20	Nil	1 10	-1:10	21.10	68:76	+1,31	0.0	0.9	Unloutin	24-Pergunnaha
01	1.4	Nii	Nu	0122	211	0 89	-0 89	41 89	47'60	-371	0.0	014	Burdwan	moognly
34	0	Nil	811	0.51	Sil	0.63	-0.92	55.93	59.91	+3'02	0.0	078	Namba	Burdwap
		No	Nil	0"24	Nil	0.91	-0:41	52:40	52.23	0'07	910	8.0	D	Beechbasm
51											910		Ranswigninge	Vest Burdwan
Ch.	0	Nal	Nil	0.56	Nil	0.24	-0.76	61117	81129	-0.15	0.0	618	Merhampore	Moorshedabad
23	0.3	Nil	Nil	0130	Nil	0.51	-0.01	61101	60 04	+1'55	0.0	014	Krishnaghur	Nudden
91	1.7	2611	Nii	0127	Nil	0.54	-0.83	54 75	86 14	+0'61	0.0	0.0	Jeasors	
25	3 1	Nil	Nil	0:19	Nil	0:00	-0.00	100 55	114738	-14'03	0.0	016	Chittagong	Chittagon
			Nil	0 20	Nil	0174	-0.71	65*17	62:34	17:17	0.0	0.1	Demagiri	21
S.	116	NU	Nil	0.28	Nil	erro	← (j·^(pt)	78161	77"91	+ 0150	0.0	0.4	Barrina!	100
65	0	Nil	Na	Q*85	Nit	0.10	0181	80.45	108.00	-17°1s	0.0	Đ*6	Noakholly	37 33 44
le	1.6	Nil	No	0'37	Nil	0.9%	-0.89	01.88	Bd 70	+5'02	010	0.2	Farrendpure	71
38)	114	Nii	Nil	0138	Nil	1/01	-1:01	76'19	10.03	+15'51	0.0	0.5	tradum	Dacon
0.0	216		Nul	0.42	Nil	0.85	- (1,2);	84.483	70 19	- 13'57	0,0	0.2	Committed	Tipperah
9-1	177	20.1	Nil	0.30	Nil	6783	- 0183	49'75	68114	+ 20:54	0.0	0.6	Mymousingh .	
6;	0	Nil	Nit	0 80	Nil	077	-0 77	65162	690,000	4 7 102	0.0	0.5	Bogen	No.
Ŋ t	0	Nil	Nil	0.36	Ril	しつき	0.hp	\$5187	\$4.33	+108	0.0	0.5	Sornjgungs	Pubna
1	0.1	NII	Nel	0125	Nil	0.49	-9*60	54 35	84137	-0.77	0.0	0.4	dampore Beautes	
86	0	2611	Nil	0.31	Ni1	0.28	-0.58	39.70	54180	-15'06	0.0	0.9	Afmidub	
1/	0.1	. Nil	Net	6 20	Nil	0:47	-0147	57'69	57*57	-0'35	0.0	0.9	Danigopore	1
		Nil	Nil	0.12	Nil	0*41	-0.41	85 %7	74'23	+11'63	0.0	0.4	Кипироте	Rungpore
11	616	Nil	Nil	0.19	2011	0157	-0°57	133.46	111.63	+6":1	0.0	015	Julpa or o	COOCH BAGEL
				0 80	Nal				121-01	+11 55	0.0	0.9	Darjeoling .	
£i	0.1	Nil	2011	0.11	Nit	014/1	-0.44	75100	Ph.10	+15'8#	0.0	0.4	Purnoun .	Purneah North Bhagulpore
			2011	0.03	Nil	0.38	-0180	48/160	68 90	+4193	0.0	0.3	Morafferpore	Mozufferpore
	0.2	NII	Nil	0.00	3011	0.40	-0*40	82:11	45 19	+0.00	0.0	0.2	Durbhunga	Durbhunga
15	1*7	Nil	Nu	0.09	Nil	0737	-0137	63'96	47 16	+ 10:80	0'0	0:3	Motihari	Ohumparus
			Mil	0.58	Nil	0.40	-0'40	40.13	63138	-5 20 !	0.0	0.3	Chapte	Sarun
23 70	1.0	NII	Nii	0.10	Nil	0'37	-0.3;	40.07	60165	-0:38	010	0.5	hourse	Shahabad
17	11	Nii	2011	0 11	Nil	0139	-0.30	37197	42'01	4'B1	0.0	0.3	цув.	Gya
100	1'0	2011	3611	0.10	Kil	0144	-0'64	42.4h	41.70	+1'73	0.0	0'3	Цанкъриге	Patna
51	0.9	NII	Bill	0.18	Nu	0,40	-0 40	42.43	63:08	-1.53	0.0	014	Вивкирого {	South Shagulpore
47	0	3/11	2011	0 11	30	0146	-0'64	04'10	61'23	+3.63	0.0	0.3	Doomas	Bonthal Pergunnaha.
ān:	11	2011	2011	0.16	NII	0.98	-0.88	43.03	80'99	-7°yd	0.0	0,2	Hasaribagh	Hazaribagh
83	0-9	2011	(Nil	0 17 0 16	Nil Nil	0.44	-0.93 -0.93	44'34 88'86	49'76 47'78	-9.43 -9.43	010	0.4	} Maushi {	Lohardugga
63		Nil	2011	0111	2611	0180	- 0.80	48'70	62.38	-3.68	0.0	0.8	Chyobsess	Singbhoom

to para. The variations are negleties when the mean for the week is less than the corresponding normal mean, and positive when greater.

Obtains cloud amount represents the part of the cky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal regard.

The means of the district are the numerical average of the rainfall return received in the district, i.e., from total rainfall at the subdivision.

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 21st of February 1890

					R	AIWPALL				To	FAL		A Marine State	•	An
Meteorological a division,	District.	Station.	Naturday, 15th February.	Sunday, 16th February.	Menday, 17th Pebruary.	Tuesday, 18th Pebruary.	Wednesday.	Fhursday, 20th Pebruary.	Friday, 21st Petrany.	Number of	gamfall of seek.	Total ram- fall since lat of month.	Average total rain- tail from lat of month.	Total rain- fall aines lath May 1889.	Aver From Ma-
Ontesa	Poerse	Poorse Khurdah Bamper Patro Point Gog.	0.000 0.000 0.000 0.000			1	11194 21194 2111		******	NH NH NH NH NH	NII NII NII NII	Nil Nil Nil Nil	0'81 0'52 0 73 0 71 1	8n·71 76/57 65/50 77/60	A
	Onstadb	Papit Jagatenapore Banki Cuttack Kendrapara Japore Dharmasia Salapore	\$65.000 	1		100 10 10 10 10 10 10 10 10 10 10 10 10	404 800 004 40 004 40 104 841		***************************************	No.	Not	NO N	0 56 0 47 0 70 0 71 1 100	74'49 82'43 78 18 72 84 87'66 89'26 72'47	60 80 80 81 83
	Raissore	Chardball Blinddruck Sorah Balasore Julianore	7 84			****	**************************************	194 P4 1-2005 204 -11 1-2005		NH NH NH NH NH	Na Na Na Na Na Na Na Na Na Na Na Na Na N	Nil Nil Nil Nil Nil	0°99 0°02 0°08 1°18 0°08	86°04 67°01 46°05 46°01 39°56 84°79	8 9 3 5 5
SOUTH-WEST . HENGAL.	Минарого	Contai Saurer Island Tumbook Midnapero Ghittal Kakrahaty	000 11 000 11			101-20 10125 101-60 101-65	######################################	0		NA	NEED NEED NEED NEED NEED NEED NEED NEED	Nil Nil Nil Nil Nil Nil	1.08 1.00 0.18 0.03 1.00	86118 80174 80100 60120 43 30 39186 66 20	01 9 31 43
	ts-Pargunnsha	bour Conning Town Alipore Jail Barrackporn Duin-Dum Baraset			******	**************************************	WWW.0.	007144	02010 02010 02010 00000	81 81 81 81 81	National Nat	Nil Nil Nil Nil Nil Nil	1:85 1:31 1:31 1:03 1:14 0 01	63-70 67-83 51-97 52-13 63-48 66-71 68-61	87 31 82 83
	Howmb	Howrah Mohesraka (Oolobersak.	*****			122344	******	10000	88****	Nil	Nd Nd	Nil	0°98 1°04	85.04 85.44	62 53
	Hooghly	Serampore	1 ,	*****	. ******* * **		######################################	50 Papa ***********************************	*****	Nil Nil Nil	NII NII NII	Nil Nil Nil	1116 1113 1 18	85 61 87 63 61 61	21 ell 20
	Surdwan	Cuins burdwan Cutwa Baneegunge .		00 mA)				**************************************	001100 111000 110000 110000	Na Na Na Na Na	NII NII NII NII	NII NII NII NII	6°83 0 77 1'46 1'00	41 33 47 35 48 11 85 90 83 80	67 67 87
	Hankoma	Bankoora Hahanpore Malaara Khatra Indas Antaipore Anta Campajalghati Raspore	**************************************	4827797 111144 111144 111144 111144 111144 111144		-0. / 1	**************************************	000 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	987484 98484 11048 98844 98444 98444 98444	NU N	No N	NII NII NII NII NII NII NII	0.72 0.70 0.46 0.58	80196 87 60 83 16 65 60 69 60 69 16 89 17 89 35 86 66	82 12 12 14
	Rearbheom	Hh. Scory Hetampere Eampere Haut Balpere	-0.180	000100 20' 101 8h	1 + 4000 + 1 + 10000	000 000 000 000 000 000 000 000		05		NI NI NI NI	No.	Nil Nil Nil	6:86 0:91 0:76	60 06 67 07 67 78 65 06 63 17	54 53 13
	Folden ,.	Ranaghat Nightnaghur Choosdags Meherpore Kocehtes	100 to 4	2 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 +	4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	401144		001-2- 201 201005 2	000144 11774 200744 20174	NII NII NII NII NII NII	NII NII NII NII	Nil Nil Nil Nil	0:83 0:89 1:01 0:94 0:98	86:10 42:45 42:46 83:15 86:00	67: 66 82: 67: 64:
	Khoolen	Satkhira Bagirhat Khoolna Nakipur Bampal	000 ode		-4147	00.000 00.000 00.000 00.000	## ### ###############################	11100 11100 21100 21100	44 10 24 0 24 10 24 40 2 10 200 1 11	No.	NII NII NII NII	NH NH NH NH NH	0°83 1°14 0°60 7	54'54 53 48 86'53	44 61 33
	Jemore	Narail Jessore Jhenidah Magoorah Bongong	******	*****	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	#0 Ago haxwor haxwor gastr-	111107 121100 100100 111107	**************************************	000000 00000 00000 000000	Nil Nil Nil Nil Nil	NO NO NO NO NO NO	N 42 N 42 N 42 N 51	0.01 0.90 0.08 0.03	88-91 63-90 80-74 86-96 47-84	66 65 66 84
	Moorshedabad	Kandi Berhampore Lalbagh Asimgungo Jungipore Lalgula Jiayungo Akkrigunj	201100 102100 102100 102100 102100 102100	015 00m 1 - 0 0 102 1 e d 102 1 e d 102 1 e d 102 1 e d 103 1 e d 104 1 e d 105	# # # # # # # # # # # # # # # # # # #	LAGUED LOCALES LECONOMICS LOCALES LOCA		**************************************	10000 10000 10000 10000 10000 10000 10000	NO NO NO NO NO NO NO NO NO NO NO NO NO N	NII NII NII NII NII NII NII	061 1944 1941 1944 1944 1944	0:48 0:50 0:65 0:73 0:68 - 0:43	66:38 66:28 67:13 7 85:01 89:03 43:98 43:96	61 81 81 81 81
BAST SEPOAL	Chittagous	Patkabari Coz's Basar (Initiagong Kutubdia Rathanya	00-11-0 00-11-0 10-1-1 10-1-1	003100 004 - 024 044 - 23 140 - 240 41700	.01200	000000	000 103 100 100 000 113 1111111	113003 113003 110009 60009	007000 007000 100100 170 71	NII NII NII NII	NII NII NII	Nai Nai Nai Nai	0'48 0'73 ?	153:50 77:08 113:00 63:06	13
	Chittegong Hill Tructe.	Raugemati Kutsa	*p* ***		000 401	P04894	* < 1.70 d *0.000	****** ******	*****	Mil	MII	Nil Fil	0.99	67·30	1
	Neckursunge	Patuakhally Permapure Hurrial Hola	**************************************	######################################	000 51 7 000 51 7 000 51 7	******* ****** ******	200000 200000	000 9 h s	000100 100101 010101 000111	Nii Nii Nii Nii	Mil Nil Nil Nil	26.11 26.11 26.11	0.82 1.13 0.83 6.69	97:84 72:84 72:81 80:00	

Statement of Rainfall in Bangal for the week ending Friday (8 a.m.), the 21st of February 1890 -could.

					R	AINPAL	L			To	TAL		A		4
persion.	District.	Station,	Varurday, 18th Pebruary.	Sunday, 14th Prorussy.	Monday, 17th Pebruary.	Tuesday, 18th February.	Wednesday, 19th Pebenary.	Thursday, 20th	Friday, 23st February.	Number of rainy days.	Rainfall of week.	Total rain- fall since int of month.	Average total rain- fall from lat of mouth.	Total rain- full since 18th May 1889.	Average rainfall from lot May to date.
RENGAL.		Gournadd: . Bauphal .	41.00	001-70	******	161091	220 200	004,54	92001	Not Nat	No No	Nii Nii	9	81.81 93.13	- 9
	Neakholly	Nonthells Fanny Harishpore Rampany	49)184 600 488 10 000	*****	**************************************	******* ******* *******	110 00-4=6 100 22070d	1 1 1 1 0 0 0 4 1 2 1 0 0 1 2 1 1 2 0 1 3 1 1 1 3	####### ###### ######	Na Na Na Na Na	NII NII NII NII	Nil Nil Nil	0.08 1.00	109:58 70:03 81:32 86:73	106'4 107 8
	Furredpore	Madat bore Purre duore	00-11-1 100-11-1	107		*****	******	211889 7128 984.184	**************************************	Nil Nil Nil	Nil Nil	NII NII	0°77 1 00 1'13	65.00 62.00 98.00	66'3 57'3 56'0
	Pacca	Munchtzunge Daeon Narmingunge Manickgunge Joydebpere	000000 10 144 001 10114	*******	**************************************	*****		000 cc	** *** ** *** ** ***	No No No No No No No No No No No No No N	Nil Nil Nil Nil	NII NII NII NII	1.02 6.38 1.02 1.00	77:81 76:45 8:14 60:87 do:85	71°; 60°8 60°8
	Rill Tipperal Tipperah	Amrtola Comilia Chandporo Beahmunheria Ramekandra-	\$00.000 00.000 00.000 00.000 00.000 00.000	888 181 197 197 197 197 198 198				##11000 ##### ##### ##### ######	******* ** ** ** ** ***	No No No No No No	Nil Nil Nil Nil Nil	NII NII NII NII	0 94 6 70 0 78 1 68	44*18 62**7 65*97 53*12 60*81	70°0 70°3 70°3
		pore, Nasirnagar Daudkondi Kasha Lakekom	001100 001000 111111	**************************************	******	*****	*****			Nil Sil Sil	NII NII NII	Nil Nil Nil	*	32:39 53:73 C2 44 63:16	? ? ?
	Mymonaingh	Kinnovatiner Atia (Tangati Mymentalist) Jami Iporo Neirik ina Sukarnakhali; Durgaporo Vereporo Total Domngan;	000 000.0 100 100 100 100 100 100	444 652 534 - 63 453 - 53 463 - 54 463 - 54 463 - 54 463 - 54 463 - 54	**************************************	######################################	######################################	#4 *** #2 *** *** *** *** *** ***	### ### ### ### ###	No N	NO N	NO N	0°80 1 0± 0°87 1°03 0°45	70*8n 02*99 97 03 60*01 120*47 57*48 150*35 68*17 57*08	70 % 86 % 74 % 85 19 33 18
Nonth Baseat.	Pubma	Puben Serugunge	******	*****	*****	*****	000.00	Place	*****	No.	Nil	Nil Nil	0°93 1°03	60.80 60.81	84'87 83'88
Manuat.	Bogra	Aberepore Nowkhills Hogra Panekbibi	001 00 117 000 484 447	94: · · · · · · · · · · · · · · · · · · ·	000 ann	**************************************	40.04	51 88 64 884 55 5 5 5	A34 741	No.	NH NH NH	Nd Nd Nd Nd	0.69 0.74 0.83 0.62	62:07 62:44 71:33 65:96	84.31 54.89 61.48 50.31
	Rajehabyo	Beauleah Nattore Nacques Laipore	A3,4530	00 00 00	1 111	** ***	**************************************	**************************************		Nil Nil Nil Nil	NII NII NII NII	NII NII NII NII	0:77 0:89 0:60	46*34 68*81 67*87 36*78 48*27	85 81 51 81 7
	Maldab	Maidah Chanchal Gajal	30w00*	40000	, , , , , , ,		**************************************	1.040		Nil Nil Nil	Nil Nil Nil Nil	Nil Nil No	0.22	50.22 28.84 30.18 51.23	88:25 87:31
	Dinagepore	Mahadat pore Churamen Kassunge Dinampore Halcorghat Thakoorgaon	000 007 07000 000 001 01101 0100 000	-0.404	481074 480-47		******* ****** ****** ****** ****** ****	******	*****	Ntl Ntl Ntl Ntl Ntl Ntl Ntl	Bil Nil Nil Nil Nil Nil	Nil Nil Nil Nil Nil Nil	0.44 0.47 0.48 0.10 0.25	53'43 51'82 52'87 05'33 61'24 87'81	87 03 83 03 83 91 81 77
	Rungpore	Bhawanigunge (Gyabanda)		4+0+70	000411	589 6.01	P = 0 10 1	***141	v 1780	Nil	Nil No	Nil Nil	0.21	88*39 74*98	62°12
		Rungpero Kurigram Hagdogra (Nelphamori Ulsporo	004004 004004	******	000 000 000 000 000 000 000 000 000 00	******	10.000	\$88		No.	No.	Nil Nil	0 31	91 G5 58:40 79:10	83.61 83.61
	Julpigaree	Julpinarse Alipars Door Paliacotta Debiganj Bhayalpars	*** y* * * *** *** *** *** *** *	*******	010 000 010 000 010 000	****** ***** ***** *****	******	4		Nd Nd Nd Nd	Nil Nil Nil Nil Nil	NI NI NI NI	0.27	123°48 110°58 :28°23 90°94 139°12	117-97 7 9
	Couch Bohar Darjoeling Hill.	(Nagrabatta). Dinin va Coom Bahar. Mukritpure. Mutabhanga Buza dilignel iparpeline galimp ng	000.00 000.00 000.00 000.00 000.00 100.00	01444 000444 000444 000444 00044 00044 00044	**************************************					No N	N. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	Nil Nil Nil Nil Nil O'A Nil Nil	0.40 0.28 0.48 0.42 0.68 0.20 0.81	95°83 175°89 182°40 118°05 102°37 121°05 129°28 93°15 170°23	28-79 115-58 106-22 112-06 193-3 15-3-69 109-39 84-49
CEER BREAT	Purnond	Kurseeng Kussengunge Arrazeen Putnenh Condwars Halarampere	-000 P4	071040 071040 071140 071140	\$4.445 \$4.445 \$4.445 \$4.445	14.000 14.000 14.000 14.000	****** ****** ****** ******	**************************************	44444	No.	No and	Nil Nil Nil Nil Nil	0:44 0:52 0:53	103-07 79-75 68-47	40.67 67.13 69.50
	North Bhagul-	Matters Kaisaganj Maddaporo Roupool Protahganj	and the second of the second o	00-10-1 00-10-1 00-10-1	\$ + b = 4 \$ + b = 4 \$ 0.00 < 0.00	*****	****** ****** ******	******	22122	No.	NII NII NII	No.	0.91	00°86 67°26 66°10	80°08 46°57
	Durbhunga	Enjpore Durrhungs Badhubaul Buhere	411101	******* ****** ****** ******	**************************************	**************************************	100 000 100 000 100 000	441141 DP0101 DP0101	101010 101010 005101	Nil Nil Nil	Nil Nil Nil	NH NG NH NH NH	0.38 0.41 9.30	62°87 50°24 63°56 69°96 88°86	43 61 40 68
	Mosufferpore	Rothers Ritamarhi Monuferpore liampore Paru Monus Riuhar Pupri	000000 000000 100000 000000 000000 000000	### 104 ### 104 ###### ###### ###### ###### #########	000000 000000 000000 000000	**************************************	000000 110000 110000	000011 00000 00000 00000 00000 00000 00000	000000	NII NII NII NII NII NII	NO N	NII NII NII NII NII	0.27 0.39 0.43	86'65 48'67 62'57 87'60 61'02 9	61.30 30.117 62.47 7

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 21st of February 1890 -cond

					B	LAINPAL	fo.			Tot	A 5.				
Meteorological Dramion,	District.	Statsow.	Saturday, 18th Polymery.	"unday. 16th Pebruary.	Monday, 17th February.	Tuesday, 18th Pebruary.	Wednesday, 19th February.	Thursday, 2seb February.	Friday, Stot Peterdary.	Number of	Ratnfall of week.	Total rain- full since lat of month.	Average total rain- fall from 1st of mouth,	Total rain- fall since 18th May 1889.	Average state of the state of t
NORTH BURAT	Chumparun	Motinner Bestish Bazaka Burhurwa	4000	**** 480 ************************************	******	1 1/2/44 1 1/2/44 1 1/2/44	\$	*******		Nil Nil Nil	NII NII NII MII	NII NII NII	0.39 6.35 1	78-83 82-87 70-24 81-70	45* 46
SOUTH BREAK	Sarun	tiopalgungo n = n Chuprah Buzar Dehras Bhabooah Saswenin Arrah		2000	000 100 000 100 000 000 000 100 001 100 001 100	##**** ##**** ##**** ****** ******	**************************************	00 00 00 00 00 00 00 00 00 00 00 00 00	******	NO N	NII NII NII NII NII NII NII NII NII	Not	0:40 0:30 0:32 0:51 0:21 0:44 0:42	35'48 46'20 40'74 67'48 42'00 84'10 29'41 63'00	661 512 407 521 907 61 61
	Оув	Mohamak Aurungulad Gyu Nowaduh Johannbud Armol Isaudmagar Sherrghati Unicals Pakri Baraman		100 000 000 000 000 000 000 000 000 000	**************************************		******		447 se	Nil Nil Nil Nil Nil Nil Nil	NII NII NII NII NII NII NII	NI NI NI NI NI NI NI	0:31 0:44 0:45 0:87	85'40 89'83 80'59 85'40 84'04 20'60 20'20 17'Dz 81'90	ct ct der
	Petma	Patna in pre Rehar Harrh Bickrom Hilse	181111 184111 184111 184111		******		****	**************************************	**************************************	NII NII NII NII NII	NII NII NII NII NII	NII NII NII NII NII	0.83 0.31 0.49 0.36	81:40 45:45 41:00 85:81 61:86 86:21	42: 41: 42: 40:
	Monghyr	Monshyr Janus Gopri Sheikpura	**************************************		00	### ### - ** ******* ******	-84 bt	1 000 1 000 1 000	400.000 400.000 400.000 210.000	No No No No No	Nil Nil Nil Nil	NA NA NA NA NA	0:82 0:40 0:63	47-82 41'67 39-49 80'19 45'81	
	South Bhegul- pore	Raig no Bangaon		*****	11	11 24				No.	No No No No No No No No No No No No No N	Nil Nil	0.43	28:34 46:97 99:90	621
	Southal Per guanalis.	Rejectal Gotton Pagerr Nya Boomka Decembr Jamera Mikagama Numaaa		201 200 200 200 200 200 200		**************************************		### NO	**************************************	No N	NII NII NII NII NII NII	NII NII NII NII NII	0.94 0.29 0.29 0.28	49'06 73'36 60'77 40'40 45'21 66 61 83'87	831 644 134 121 8 1
CEUTIA NAG-	Hamribagh	Pacasuba (Geridi) Husarinach Seminturah Mahudi Hili- Jisomera Hilia Harai Chatea Karajisha Hamphar			9				**************************************	Nil Nil Nil Nil Nil Nil Nil Nil Nil Nil	NII NII NII NII NII NII NII	NII NII NII NII NII NII NII	0185 0185 0165 0167 0 60	88790 48710 86726 48700 31736 44704 88 32	651 671 673 673 674
,	Lohardugga .	Lohardugm Kausin Pela anw Rilla Halamat Hassanahad		999	1	**************************************	dragge shrida	######################################	00 400 > 10 400 - 10 4 - 10	NII NII NII NII NII	NH NH NH NH NH NH	Nil Nil Nil Nil Nil Nil	0187 0187 0161 1	45*24 83 ft 34*15 83 60 1 48*40 88.2,	32 11 23 1 43 1 1 1
,		Chrebata Uhakradhar pore. Uhatailla Uhatailla	AND THE PERSON OF THE PERSON O		*******	320 ****	1111-22- 411-22- 451-000		075.00	No N	Nii Nii Nii	No. No. No.	0.00	68170 88180	1
		Paralia Ciobiadpore Eighungth- p re.	*** **********************************	40 · · · · · · · · · · · · · · · · · · ·	***********	4 .	-21114	\$00.000 \$00.000 \$10.000	**************************************	NA NA NA	NH NH NH	No Nil Nil	0.88 0.83	45°62 83°19 45°91	41
		hirrabhaem Jhaide Cane	***	14.00	4		1 .au		0 2 4 0 0 0 0 2 4 0 0 0	Nil Nil Nil	No No No	Nil Nil Sii	7	44°32 51°42 56°60	

Explanation. -- Indicates that no rain has fallen - If the natura for any day has not been preserved, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, the 25th February 1890.

SUMMARY OF THE METEUROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 21st FEBRUARY 1890.

In the meteorology of the previous week it was noticed that there had been a slow but steady disappearance of the north-east monsoon or cold-weather conditions with the gradual steady disappearance of the north-east monsoon or cold-weather conditions with the gradual establishment of the conditions which obtain just previous to the acting in of the hot weather. Pressure at the close of that week was decidedly low, while temperature was rather largely in excess of the normal, and the northerly component in the wind directions was growing steadily more feeble. The general result of the changes which have taken place this week has been to practically almost entirely efface the conditions which obtain in the cold season and to establish those of the hot weather. Winds have been generally light and variable during the week, with a steadily increasing southerly component in them, temperature on the whole has risen steadily, and pressure has continued very low for the season. The only the whole has risen steadily, and pressure has continued very low for the season. The only period during the week when there was any break in the steady establishment of the hot season conditions was on the 17th and 18th, when a barometric depression passed through Bengal. This depression had first been observed near Jacobabad on the morning of the 18th Bengal. This depression had are been observed near Jacobabad on the morning of the 15th and it moved in an easterly direction, but though the barometric depression at its centre was decidedly large, yet it failed to give any rain to Bengal in its passage through it. When the depression commenced to advance over Bengal, temperature was as usual exceptionally high, but in its rear temperature fell very distinctly, though the effect was only very temporary; and again at the close of the week temperature generally averaged from 3° to 6° above the normal. With the absence of any disturbance, therefore, which was sufficiently intense to give local storms, again the whole province has been quite rainless for the period under

Pressure-Hus been in defect of the normal almost throughout the week, and the average defect in different districts has varied from about nine to twelve-hundredths of an

Temperature.-The mean temperature of the whole province for the week has been between 4° and 5° above the normal, the excess being largest in South Behar and Chutia Nagpur, where it has exceeded five degrees. The rapid increase in temperature during the week is clearly seen in the figures representing the average mean temperature in the various districts, and thus in Orissa the rise during this period has equalled 4.2°, in South-West Hengal it has been 5.9°, in East Bengal 6.0°, in North Bengal 4.1°, in North Behar 3.6°, in South Behar 3.9°, and in Chuta Nagpur 4.0°. The actual temperatures during the week, the range from day to night, and their variation from their normal values are best seen in the following table. where the average maximum, minimum and mean temperatures at nine typical stations in different districts of the province are given, together with their normal values. It will be seen that both day and night temperatures have been almost equally in excess, and that at some stations the average temperatures have even been as much as about 6° and 7° above the normal:—

Table showing the excess or defect of the actual mean temperature from the normal for the week ending 21st February 1890.

						Normal mean maximum fem- perature for the weak spulling glat February.	Actual mean maximum tem- peratur for the week ending 21st February 1900.	Variation of actual mean from the normal,	Normal mean minimum tem- parature for the week ending Zint February.	Actual mean minimum tem- perature for the week ending list February 1890.	Variation of actual mean from the normal,	Normal mean daily tempera- ture for the week ending 21st February.	Actual mean daily tempera- ture for the week ending 21st February 1890.	Variation of actual mean from the normal,
Outlach Calcuta Da-ca Burdwan Petus Gya Furnean Hazarbagh Darjeeling	000 110 120 120 100 100	000 000 000 000 000 000 000 000	990 910 900 900 900 910	094 005 000 000 000 000 000	non non non non non non non non non non	90°2 82°0 82°3 83°0 76°2 81°0 70°5 77°7	95°9 85°4 86°5 90°0 84°8 87°0 83°5 83°6 85°2	+3'8 +4'2 +7'0 +6'0 +8'1 +3'8 +5'8 +5'8	65.5 00.3 57.8 57.6 53.5 58.2 51.4 84.3	66-9 64-6 64-8 61-8 56-0 60-0 51-7 50-3	+1'4 +4'3 +4'7 +4'0 +4'1 +5'8 +0'3 +5'1 +6'7	77 9 71 2 70 1 70 4 65 4 69 1 65 5 66 u 40 8	80'4 75'0 74'5 75'9 70'4 73'8 67'8 71'4	+2°8 +3°8 +4°8 +5°0 +6°8 +5°0 +6°8

Rainfall-Has been entirely absent throughout the whole province for the week.

490 SUPPLEMENT TO THE CALCUTTA GAZETTE, FEBRUARY 26, 1890.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 21st of February 1890:—

				THEF	TASE	F 30, 700					li li	LAIST	LLL.				
		week.	wook.	Avers	ges for	wook.	shore or week.		Of we	ok,	R	ainy di	Lyu.		onth.		e 1840.
Marron-Logi Divisions.	CAL	Highest observed daring	Lowest observed during	Of Bighest of each day.	Of lowerst of each day.	()f mean for each day.	Average mean of week the below normal mean of	Avorage.	Normal average.	Variation,	Average number in	Normal average num-	Variation.	Average.	Normal aversas.	Average	Wormal preview.
Orinta	***	84.8¢	61.0"	\$8.0°	67'8"	77-40	+2'5"	Nil	0'27	-0'27	0.0	0.0	-0.4	3611	0.75	48*30	849
South-West Bengal	***	95 3	81'8	881	62'5	75'8	+4'8	Mil	0.80	-0.86	0.0	0-4	-0.4	Nil	0191	52'81	6276
East Bengal	000	80"1	84167	84.4	03.3	73'3	+4'4	Nil	967.0	-0'26	0.0	0.2	-0.9	Nii	0.88	76'86	78'14
North Bengal	404	8816	49*8	8412	25.2	8917	+416	Nil	0.35	-0.55	0.0	016	-0%	Nil	0'55	78'54	70 90
North Bahae"	***	84'7	4619	88.8	81.8	46°D	+3.1	Nil	0.10	-0.10	0.0	0.3	-03	Nii	0'41	57'89	40'90
Bonth Bohar		91.3	8818	8610	8.90	71'6	+51	Ril	0.13	-0:18	0.0	0.9	-0.2	261	0'61	44'30	44127
Chutia Nagpur		88 0*	56:3*	63'9*	5619*	72 4".	+512*	Nil	0.12	-0.17	0.0	014	-0.4	NII	9164	48'08	

* Pooree, Chupra, Dehree and Chyebassa not included.

METEOROLOGICAL OFFICE, BENGAL;

A. PEDLER,

The 25th February 1890.

Meteorological Reporter to the Govt. of Bengal.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 16th to 22nd February 1890.

		A. K.			TEMP	erature.			E	LYGROMETHY	r.	E E
Монча.	Date.	Pressure at 10 corrected and re- to 32' Fahr.	Uaily mean.	ily m		Minimum.	Dry buils at 10	Wet bulb at 10	Vapour tension at 10 a.m.	Dew point at 10 A.M.	Humidity at 10	Rainfall past 24 ho
Peb. 1890	16th 17th 19th 20th 21st	Inches. 29.849 -806 -959 30.018 29.909 30.002 29.982	76 7 79 4 76 2 73 5 75 6 77 5	62-9 89-0 76-4 86-3 87-8 89-0 89-6	14 5 19 2 20 4 25 6 24 4 23 1 24 9	68·4 59·6 66·0 60·7 03·4 65·9 64·7	77-6 79-6 78-6 79-6 79-6 80-4 79-6	73-8 73-6 63-6 63-8 68-6 68-6 67-6	743 709 389 380 561 542 510	70 3 68 9 52 0 61 4 61 7 61 2 59 8	79 70 40 37 65 65 62 61	Inche

C. LITTLE,

For Meteorological Reporter to the Goot, of India.

METROROLOGICAL OFFICE, INDIA; The 24th February 1890.

Results of the Meteorological Observations taken at the Alipore Observatory from 16th to 22nd February 1890.

			2	barometer		TEMPE	BATURI	L		Hveron	CSTRY.	-	WIED.			125
Month.	Date	Maximum in sun.	Number of hours bright ematine.	Mean presents bare at 32° Fahr.	Mong	Meximus,	Range.	Minimum.	Mean wort built.	Vapour tension.	Dew point,	Humidity.	Prevailing direction.	Miles recorded.	Bein.	WRATEUR.
1890.		0		Inobes.	0	0	0	0	0	Inches	0	1 %			Inches.	
Føb.	16th	187 5	79	29 756	75-4	864	18:7	67 7	77-0	0702	68-7	83	88W and 8 by W	187	MB	Chiefly cloudy
	17th	189-5	89	735	77:1	88-5	19-0	69-5	71:1	-681	67 -8	74	SW and SSW	161	**	Clear.
,1	18th	188-5	7.8	- 872	74-6	85 5	19-6	66 0	66.9	-568	62-4	67	N, variable and calm	63	83	Chicaly clear
	19th	140-2	8-1	-917	72:4	R5-2	25-9	59.3	624	-482	54-9	58	NNW and variable	44	,,	Clear.
98	20th	189-0	0.1	-910	74-2	86.5	25 1	61-4	66-7	-667	62-0	67	S and WSW	80	**	Clear.
	21st	143 4	8-9	-689	75-8	88 5	24 6	63-9	66 3	619	80-0	62	SW by W and variable.	81	11	Clear.
	22nd	142-6	8-6	-901	75-1	88-6	25 5	63 1	66 4	583	60 8	61	SW by S and variable.	46		Clear,

The mean pressure of the seven days The average pressure of the corresponding period for 24 years, SG.'s (Office	Inches. 29.854 29.948	
6m - 4-4-1 1 61 61 - 14		Hours.	
The total number of hours of bright sunshine	- 0 0	57.8	
The maximum possible number of hours of sunshine		80.8	
		O	
The mean temperature of the seven days	* 6 @	74.9	
The average temperature of the corresponding period for 24 years, 8G	.'s Office	74.0	
The extreme variation of temperature	* 0 p	29.3	
The maximum temperature	- + 0	88 6	
		Miles,	
The highest velocity of the wind in one hour		13	
		lbs.	
The highest pressure of wind on one square foot	Not me	surable.	
		%	
The mean relative humidity	***	67	
The average relative humidity of the corresponding period for 24 years,			
Office	, 0. 0. 0	66	
100		Inches.	
60 4 4 1 6 30 6 1 8 1241 4 00 1 72 1 - 2000			
The total fall of rain from 16th to 22nd February 1890	***	Nil	
The average fall of the corresponding period for 24 years, 8G.'s Office		0.25	
The total fall from 1st January to 22nd February 1890		0.77	
The average fall of the corresponding period for 24 years, SG.'s Office		1.29	
many many American American As and distinct to the form of the Day		J. 1991	

The mean pressure, temperature, do., are deduced from the traces of the Barograph and Thermograph,

and from observations made at 6h, 10h, 16h, and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to these of the standard, Newman's No 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beakley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

a. dew, = fog.

O. LITTLE,

For Meteorological Reporter to the Goot, of India,

METEOROLOGICAL OFFICE, GOVT. OF INDIA; Calcutta, the 24th February 1890.

MEMORANDUM.

During the week ending 8th February 1890, the returns of the vital statistics of the principal Municipalities in Bengal presented the following results:—

1. The birth-rate amounted to 23.3 per 1,000 of population, against 21.7 per 1,000 in the preceding week ending 1st February, showing an increase in the registration, and the death-rate to 23.9 per 1,000, against very nearly the same ratio, viz., 23.7 per 1,000.

2. The following Municipalities returned the highest proportions of births and death-rate to 23.9 per 1,000 for the same ratio, viz., 23.7 per 1,000.

		Birthe.			1	Deaths.		
				Ratio per				Ratio per wille.
Darjiling	0.00	4 6 8	001	61.9	Poori	***	***	128:0
Comillah		+9+	0 * *	80.1	Darjiling	+81	* 9 4	80-3
Naminganj		***	= 0.0	37.3	Jessore	4 = 4	***	49.0
Durbhanga	0.04		***	84.3	Serampore	***		47'1
Monghyr	991	***	0.44	36.9	Hughli and Chin	surah	000	45.9
Bhagulpore	494		***	91.7	Purneah	0 0 0	9 4 9	88.1
Gya		***	000	31.4	Narainganj	94.1	6.6.0	37-3
- 4			-44		Burdwan	***	0.00	35-1
					Gya	0.00	0.10	34 8
				1	Midnapore	***	***	31.0

3. The mortality from the several death-causes was as follows in comparison with that in the preceding week :-

					200	tio but write distille	rue whore sudnift.
					B&	h February 1890.	1st February 1899.
Cholera	400		000	0.0.6	***	2.3	3.3
Small-pox	040	***		000	***	1.1	•6
Fever	9 4 9	4 11 2	000	4 9 0	0 1 0	10.3	9-3
Bowel-compla	inte	0 = 0				8.3	3.9
Injury	411	***	400	n o a		.6	.4
Other causes			000	00.0	2 + B	6 1	7.8

The only noticeable point indicated by the above figures is that there was a noticeable increase of mortality from fever.

4. The following Municipalities suffered in a more marked degree than the others from the diseases mentioned in the foregoing table:—

Cholera.	Small-pox.	Foor.		Bowel-com	plaints.	Other onus	ea.
Ratio per mille.	Ratio per mille.		Ratio per mille,		Ratio per milia.		Ratio per
Poori 83*6 Hughli & Chin- surah 8*2 Serampore 7*8 Howrah 6*7		Purneah	. 31.8		10.7	Midnapore Bali Narainganj	17.6

Small-pox unfortunately continued to rage in Poori town with much severity. The mortality referable to Sez, Cluss and Age stood as follows:-

According to Sez. According to Class. According to Age

		access any	Compa		220007	usny to A	ye.	
	Entio per mille.		1	latio per mille.				Ratio per mille,
Males Fomales Ratio of male deaths to every 100 female deaths, calculated on the pro- portion such mortality bears to the total male and female population	21.8	Christians Hindus Mahomedans	***	29 9 24 9 21 4	Under 1 yes 1 and under 5 10 15 20 80 40 50 60 years and	5 years 10 15 20 80 60	****	18·1 15·5 16·8 18·1 16·8

W. H. GREGG, Dip. Publ. Health, Camb., Banitary Commissioner for Bengal.

The 24th February 1890.

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COODING CO. Company Part (c) Co.
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PING OF BANKARY COMMISSIONER FOR BENGAL.

W. H. GREGG, Dip. Publ. Health, Camb

CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 22nd February 1890, as compared with the corresponding week of the previous year.

			WHEE E	NDING SATURY PERRUARY 189	PAY, THU		DING SATURD PEBRUART 18	
NATURE	OF CARGO.		Number of boats.	Weight of ourgo.	Tollago,	Number of boats,	Weight of cargo.	Tollage.
Management of the Management of the American State of the Management of the Manageme			No.	Mds.	Ra.	No.	Mds.	Ro.
Rice and paddy Jute Firewood Other articles	000 000 000 000	# # # # # # # # # # # # # # # # # # #	1,794 135 115 1,024	2,84,289 94,125 69,210 2,74,750	4,616 1,005 1,030 4 082	1,065 136 127 1,027	2,89,857 87,675 76,810 2,45,895	5,222 1.767 1.209
	Total	***	3,068	7,16,367	11,283	2,354	6,99,737	12,001

Eastern Bengal State Bailway.

Abstract of principal commodities carried over the Eastern Bengal State Railway during the mouth of November 1889, as compared with the same month of the previous year.

						18	189.	1888	ì.	To	TAL		
	BTAR	1,300.				Upe	i lown	Up	l llown,	1989.	1888.	Increase.	Decreas
			_			Tens	Tons.	Тачк.	Tons	Taus.	Tons	Tone.	Tons
teal		4.9				0.1000	1,638	7,353	2,1070	16,5×10	9.713		1,150
Cotton, mw					6-8 +	54	459	71	74	010	14G	364	
Outton twost and ya	111-												
2 - Industr			0.0		9.4								
Cotton prises goods-	_			4.1									
1 - huncann -													
er, Italia	les mi		rdin			7 8,000	60	3,216	167	3.115	3,383	**-**	26
h In bot	E410	***		6.0 ~									
2 - Indon -	en Br	d bun	chlos										
a lu bes						3							
Grains-												ì	
2 Rinn	44.5				4.1	1,455	1,177	1,396	3,403	2,631	4,603	48 000	2,13
5, -Othern	100	1410		1.01		700	1,751	851	3,657	8,452	4,539	*****	1,93
Hidea and skins- 1.—Hidea of cat	tle-												
g, - i friend	net.	611	4.6			1							
b = 1 ndee	gannel.												
1 Blems of while		e) A	853	9	475	861	457	74	11191
a - linese b, - l'adre			8.4		**								
uto-	america.		1.01	**		,							
1 Raw-													
a Korowi		0.00		6.01		****	7,368	190 844	G,104	7,568	6,104	1,202	
$b_i = 1$ more						FG	30,137	29	25,514	SP.223	29,841	10,630	**
1 Clupny-lence	10 12 18	rioth	- 9 -		. '	147	1,123	95	1,325	1,270	1,418	90×89	141
1. Copper, uswi	migl	18		4 * *								1	
3 brane need out			whit			Pag	78	132	84	1,0/14	1,018	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
4.—Jron			,			1/20	/8	1192	6	7720.14	1,010	100-00	14
8 - Tin	0.4.2				4.1	1						i	
6 Others	***	1000				,							
2 Karoune	*17	17.	***		45.1	407	2 1	418	6	409	424	75	411111
P Othern						289 ·	40	143	33	239	11:0	43	700104
Haceda -									1			į.	
1 Linmond		149		1.01	***		j.						
2 - Rape and mu 3 - Til or gingell	SAT WITE		**	8.04						1			
	2				***	61	1,840	113	1,200	1,411	1,313	96	17,186
B. Castar		101	41.			l .							
6 Postsy	0.7.4	167	919	4 - 1				1					
7 Cathern	4 6 4		4 4 4	***	11:		1	1		1			
2.— Hetelmuts				***	[103	6.04	316	75	787	191	200	40 101
a Others	1.4.4	4.0.4		***	484	44\$24	290	4113	2511	703	181	83	
atleay plant and re	Mille			110		2,456	2,304	2.832	1,300	4,70t 8,029	4,138	1,803	
111	***	480				9,011	18	2,203	22	Pinth	St. war	1,000	****
1 Prained										918	676	41	
	020	00,	***		417 . 4	623	98	803	173	717	910	41	40.000
w ountermen	949	444	41+		1								
1 Pareign	0000		+ 0 3	***			1,945	6	1,654	1,945	1,590	315	124814
1 Induan	100		* * *	487 8 8			-,						
ood-						8,3	936	På i	70	551	170	391	F 5 - 4 q .
	0 6-0	100	0.04	200	484	1,437	7774	1,434	a	1,437	1,437		
nhaeon	504		200	991	743	46	617	200	8D7	602	THE CE		274
other articles of p	week		no fi										
1 Unmanufactu	I wel		+ 0.1	* * *		2,810	1,002	2,700	1,685	3,002	4,37.		473
3 Masufectured	lug (1	5.0	. 10	Backing		811	401981	498	22	511 i	\$40	1 %	****
Ay, atraw, and wool	100 (4	V. E. P.	-30.	DOLLING!	-					THE COMM	1111111111	30.400	-
				Total		97,889	02,938	26,762	83,241	NP.876	60,004	16,459	0,607

Comparative Statement of traffic, Eastern Bengal State Railway, for November 1889.

DE	CREASES.					
Coal		***	***		***	Tons. 1,153
Due to sufficient stock for railway and flotilla purposes. Rice	461	* 5 4	***	144		2,170
The ducrease is due to the failure of crops in Bengal.	NORMARES.					
Betel-nuts Due to extensive despatches from Khoolna and C. P. T. B	lailway.	++4	* - *	4 4 4	4.4.4	566
Railway plant and rolling-stock		++1	004	4 8 0	4 + 4	622
		***	***	***	0.9.4	1,805
7 total	10 9	***	1+>	***		355
Due to favourable despatch from Jalpaiguri.					F. P. (QUINLAN,
CALCUTTA, the 20th February 1890.				Z		of Accounts.

Bengal Central Railway.

Abstract of principal commodities carried over the Bengal Central Railway during the month of November 1889, as compared with the same month of the previous year.

					į	188	10.	18	58.	Th	Mal.		
8	TAPLE					Up.	Bown.	Up.	Down.	1859.	1448.	Increase.	Derroad
					1	Tona.	Tona.	Tona.	Tona,	Tons.	Tons.	Tons.	Tona
								on mharada					o walls,
cond			4+1	101	441	1.797	Filtrick I	2,303	10	1,797	2,513		516
lotton, raw lotton twist and ya				191	111						3		1
L-European	*** *	91		440	01.	1							
2.—Indian		40		***		1							
Cotton mere goods-											1		
i.—European— g.—In bale	t been an	annel I	88	007		206	3	274	1,00	267	274		
8.—In box	Poli .			411		-				0.477	-14	-6-17	1
0 - Inches							1						
a.—In bal	re and t	oundl	DH	*111	44	('							
sIn box	25 .	0.0		5.0%	891	, ,							
RRice	500		647	400		201	21 .4	7	211	202	218	4	1
5Others				***		4.0	71 -4 15	32	199	Ga	231		167
fides and skins -						The state of the s			į				11411
1Hides of call	10-								1				1
a Dresse b Undres	inud .		445		a.	1							
2.—Skins of shee			405	100	4.	}	22		17	22	17	1 6	
aDresse	d .		100	100		1						67	
6Undres	sed .		+19			J							,
nto-					1		1						
bUnsere	frame				1	411111	1 . Kiri		2,011	1,802	2.611		
2 Gunny bags	and clo	th				2	*****	8	141 441	2	6	111 100	80
Matheir -												*****	
1Copper, unw	ronght		eed	* 2 0)	1						
S. Brass, unwr	natigates	monage b	2.6	***	100	1							
4lren			40		011	25	16	3-6	19	45	53	1000	,
6Tin			000	212	0.01	!							}
6Others	0.01		110	8.00	40.))					
Mis— 2.—Keronina				***		314		80		114	0.0		
3.—(Hbars			100	***		76	*****	62		74	P.O.	36 12	*****
Dilocada -											- Un	15	
Dilected			016	200	800								
z Rapo and mu	nuard .		V 4 V	= 0.4	***				1				
3.—Til or gingell 4.—Niger				- 64	141	16	69	88	78	8.5	104	1	
5 Custor								•		-	196	411.000	6
6Poppy			000	107	1								
7Others	++4	19.0	100	444	P1 .	,			,				
z.—Betol-nuts			114				651	2	81 (der s			
a.—Others			111		24-	21	6	14	8	651	83	569	*****
Railway plant and r			114	***	***	10	24	45	86	88	13F	10	111.11
init sin			0.01			301		163	*****	301	163	138	4
IDrained													
2 Undealord				140	881	8	63	16	149	78	163		9
Wood-				- 8-0					1				
1.—Timber			010	***	001			10	11				
2.—Firewood	101 9	0.0	4 * *	0.4.4	***		19			100111	21	*84211	. 2
folunces Il other articles of	merchai	ndlan-		***	0.01	26	Th	25	6	45	31	14	******
1.— Drammanna	med,	11		4.10	1	800	100	en.					
3 Manufacture	d .			4.00	1	272	107	200	207	379	603	*****	194
					1-11								
			m.	tal	0.01	2,183	2,826	8,427	3,639	6,000	7,066		

Comparative Statement of traffic, Bengal Central Railway, for November 1889.

4	9	20.01			1100091 701	TI COCHROCL	TOOA"	
Betel-nuts			INCREASES.					Tons.
Due to favourable market.	4 # 8	***		***	0 0 0	***	***	568
Salt Due to favourable despatch	from Chitpore.		0 0 0	A = p	***	+ 9 4	***	138
Conl			DEGREASES	14				
Due to sufficient stock for	ra lway and flotill	a purpose	a having been	in hand.		* 1 0	443	516
Due to duliness of the mar	ket on account of	previous	year's crop c	oming in es	rlier.	166	***	809
			-	9		77 70 0		

CALCUTEA, the 20th February 1890.

F. P. QUINLAN, Examiner of Accounts.

Nalhati State Railway.

Statement showing Increases and Decreases in tonnage of Staples carried over the Nathati State Railway during the month of January 1890, as compared with the same month of the previous year.

BTAPL	rst.				18	89.	109	02	Tot	al.	*	
U A A A A					Up.	Down.	Up.	Down.	1889.	1800.	Increase.	Decrease
					Tons.	Tone.	Tons.	Tons.	Tons.	Tone.	Tone.	Tons.
Joal land	501	400	0.04		791	10444	787	******	794	767		37
Cotton, FEW	1		20.6		12		16	*****	12	11	2	40000
Oction successions— 1.—European	. 11	224	***		62		18	1	42	110	/4-7-	. 23
raine -										6.0	14.7.	80
Rice	0.04	40.	111.6	4.5	2314	1,148	981	617	1,186	740	4.000	461
4. Gillers	0 0 9	0.9.0		1.0	20	71	80	37	101	652		39
lides and some -	tle-			i i			1					1
a Dryen		24.5		4.7		4	*****	7		7	3	1
. AL.ndry		111	***			i i	******		1		1	111111
uto-												
le-Raw	410	***	101	222	505444	22	******	17	22	17	11.00	
2.—Gunny bage	and c	loths	127		24	4	12	4	\$86	16	100000	15
esther manufactured	***	4111	+10	84 1	5	*****	0	*** -	ō	6	1	
1Beer	000		101		84				B	******		1 1
1, Mill 11188		101	1.44		1	149441	988111	497.000	1	010005	171101	
dotals—								,				
2.— Iron	1.00	***	100		3	100201	18			15	12	
4Others		144	4.5.5		10	4	b	6	14	12		1
1Castor					4	1		1			1	1
2 Kurosino	0-6.5	4.5.4	8.6.6	1	2 1	1	i	****	ß B	1	€ 41	
3 Uthers	100	100	101		10	.,	8	877.41	10	8	** **	
Ollaneda —	141	7.04	844	- 1	80	.4	•	400	0.51			1
2 Muntard and	Irano	101	***		74	101104	28	(1	7.4	28		44
6 Others	100	0.00			0	******			6	80C7	P00 an	1 7
rovisions-							.,,,,,,			*** 144		,
1Ginee	8.01	441			3		19		3	D	6	*******
2Pened fruits		ntu	101	141	2		2		2	2		111111
3Othern	0.00	0.8+	$\varphi = 0$	***	73		60	******	73	40		33
apor and pastobrard	100	10 I			77		10.114	- 0.0	1	P199 -		3
initway plant and rothi					80	9 1	85	14	3941	68		18
isik, mw-	0.0 4	104		**	80		26	1	31	25	411000	
2.—Indian	861	600	4.0.4		13	23	62	86	36	90	62	1
ilk piece-goods-		300				-	400	GH.	grd .	9/3	- 02	*40114
2ludian	111	101	h 4	100	******	3	2 .	4	3	6	3	1
smil has enoti	By to		771		******	20000	0		144	61	6	
lugar —						j	İ					299 101
1.—Brained	4.4.3	0.00	4 9-0	- n 1	24	601-44	1.6	110	24	15	140 41	1 0
zUndrained	0.01	+41	4.01	481	24	*****	99	**	24	D:	69	
Inhanton		2.04	***	201	7444)	3	1		3 1	1	*1****	8
limber articles of mer	Same and	i man	400	0.01	3 1	300 to 1	3.44	193 .	3	4	1 1	
HOTHER BLITOISS OF HIGH	HERIO	110	*11	****	70	17	144	3.00	92	167	75	170000
		T.	otal	201	1.388	1,313	1,631	700	2.700	2,241	239	708

		INCRE	ASE.				Tons.
Metals-							. 0
(2) 1ron	***	2 6 6		***	* = 0		12
This increase is due to greater of	lemands.						
Silk, raw—							-
(2) Indian This increase is due to greater i	manned of Arres		Lean Danies	må distolet	4 4 5	0.04	62
Sugar-	mport or busi	MF COCOOM	LOW TENNISH	nj district.			
(2) Undrained							69
Due to greater import owing to	higher rate.		***	803	2 0 0	0.0.0	62
and to Bremon import owing to	might interi						
		DROBHA	R.				
Coal	144	***	100	101	244		37
Due to previous stock not being					***	***	D,
Cotton, piece-goods-							
(1) European	441		= 4.4	+ 14			23
Due to pravious stock not being	exhausted.						
Grains-							
(2) Rice	993	494	***	***	**1	***	441
Due to less expert from interme	diate Ptations	, owing to I	ess demand i	n North-W	estern Prov	mes.	0.0
(4) Others			of the seem		***		39
Due to less export of kalie this	Ager owing to	o the milur	or the crop	6.			
(2) Gunny-bags and cloths							12
Due to less export of rice.	***	***	* * *	h n +	* 0 4		4.60
Oilaceda—							
(2) Mustard and rape	***	* *	114	2.00	+ 0.0	100	46
Loss imported, bazar being dull.		**					
Provisions-							
(8) Othern		8.4.4	8.64	* = 4	* * *		33
Due to potatoes being carried th	in year by bo	ate.					10
Railway plant and rolling-stoc			949	0 0 0	4 4 9	+ 9.0	18
Less rathway mustorials carried d	uring the me	nth.					

R. G. MOOKERJEE,

Manager, Nalhati State Railscay.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY

Approximate Return of Traffic for week onded 15th February 1890, on 1,525} miles open.

	COACHIN	o Traffi	ic.				e and Minmeal Dric.	Other earnings	*	TRAPPI	CTBAIF-MI	LHeat
	Number of passongers.	Recei	pts.	_	Weight carried.		Receipte.	(estimated).	Total earnings.	Coaching.	Morchan-	Te
		Rs.	Δ.	p.	Muss.	8.	Ru. A. P.	Re. A. P.	Ro. A. P.		- 4	
Total traffic for the week	255,009	3,05,580	1 8	0	27,79,978	0	8,45,318 10 0 404 18 0	21,080 15 8 13 13 2	9,15,252 10 6 0.0 5 1	811,500}	R5,399)	101
FORT of the control o	1,470,053	16,67,706	ß	0	1,45,01,049	20	32,94,693 1 0	1,11,703 13 0	60,74,123 4 0	319,707	800,2178	87
Total for 7 weeks	1,725,100	10,78,856	7	0	1,70,72,024	20	30,48,008 11 0	1,32,810 12 0	60,40,445 14 0	640,315		1,03
Total for corresponding week of previous year Per mile of railway sprraspond-	251,232}	3,09,530		1	28,62,673	10	6,23,081 S Q	17,737 9 7	9,62,362 10 1	68,644	98,801	
ing week of previous year Total to corresponding date of previous year	1,708,439}	20,04,193		8	1,91,28,461	0	400 12 2 41,80,783 12 3	11 9 11	03,89,023 15 8	645,617	667,900	Lu Lu

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works
Department Circular No. XXI. Railway, dated 23rd July 1883.

Asoster 19x11	rs you wher Parkuart 1	endiae		TREACANT I			PROBUPTS PRO PRIL 1888 TO 10 PERMUARY 1885	111	ΔI	. RECEIPTS SEC PRIL 1889 TO 150 PERSONALY 1886.	34.7	Total	7-4
Mean milence, warrand	Recoupts.	Por mile worked.	Hean mitmer worked.	Recoipts.		Mean mileage worked.	Total receipts.	Fer mite worked per week.	Mean uiteage worked.	Tota receipts.	Por mile worked per week,	increase in 1890.	derna liji
7	fts.	Ra		Rs.	Bo.		Re	Ro,		Ès.	Rs.	Ro.	ala
1,6284	9,53,583	624	1,525}	9,75,283	639	1,525	8,99,29,381	583	1,820	3,45,65,689	550	000 004	1,4

PATNA-GYA STATE KAILWAY

Approximate Return of Traffic for week ended 15th February 1890, on 577 miles open.

	COTCRING	TRAFFI	c .		MERCHAPDISE TRAP		E AL S	1 4.1	Other exening	to.	Total carning	TRAPPIC T	iim-utani
8 -	Number of massagers.	Receip	384.		Weight	Rucei	ı ka		(astimates).		≥ S	Conching,	Merchan
	-	Ra.	A - '	P.	Mos. s.	Ra.	å.	P.	Ho. A. P		Ra. A. P.		
Total traffic for the week	13,106	0,084 122	p 1-		41,509 20 725 30	2,719 47	8		49 10 0 0 13 10		9,753 12 0 - 170 8 4	1,799	616
year weeks of half-	71,201	37,567	Ú	0	1,98,945 10	13,320	p	0	284 8 0)	\$1,177 9 O	9,918	4,662
Total for 7 weeks	94,506	44,552	1	0	2,40,454 30	16,015	2	0	336 2 0		60,031 6 0	11,407	0,010
COMPANIOR.									1			-3.	0
otaffor corresponding week of	13,674	7,3:0	10 1	10	24,801 30	1,707	1	0	A5 18 0		9,068 19 10	2,855	aan
er mile of railway correspond-	9.19	127	15	9	433 50	20	1.0	0	0 10 1	1	189 7 4	*******	****
otal to corresponding date of	83,956	44,475	0	4	3,02,191 10	11,853	7	0	236 5 9	ŀ	00,594 18 1	13,870	3,656

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works
Department Circular No. XXI, Railway, duted 23rd July 1883.

Apcerpt 16:2	PRESCRIPT		PARRUARY			L ERCRIPTO PRO PRIL 1888 TO 16 PERMUARY 1881	THE	API	RECUIPTS PROUTS 1850 TO 161 RECUIPTS 1890 TO 161 RECUIPTS 1890.		Total	1	
Mean alleage worked.	Receipts.		Mean mileare worked.	Receipte.	Per tnile worked.	Mean miloage worked	Total receipts.	Per mile worked per week.	Mean mileagu worked.	Total receipts.	Per mile worked per wook.	ingraces in 1890.	doc
971	R4.	Re.	87)	Ba. 9,756	Ra.,	674	Re. 4,25,056	Ro. 165	874	Ro.	106 206	R o. 17,671	

[.] Deducted Re. 350 on account of difference between the approximate and middled figures to \$1st December 1880.

TARTESSUR BRANCH RAILWAY.

Approximate Beturn of Traffic for week ended 16th February 1890, on 231 miles open.

	COACHING	TRAFFIC.	MERCHANDIAN TRAF		Other carnings	Total	TRAFFIC	TRAIN-MIL	ED ROW.
•	Number of passengers.	Receipts.	Weight carried.	Receipta,	(emtrimited).	chrinigh.	Conching.	Merchan- dise.	Total,
	1	Re. A. F.	Mps., c.	Rs. A. P.	Ra. a. r.	Re. A. P.			
otal tradic for the work or por office of rattyray or provious 6 weeks of bail-	122,600	8,651 10 0 284 9 1	17,085 10	562 3 0 25 4 3	5 3 0 0 6 6	0,219 18 0 279 B g	584	84	966
Appr. 600 -	113,201	27,579 7 0	75,124 0	9,880 8 0	61 10 0	50,100 W 0	E,000	- 1800	5,400
Total for V weeks	185,862	33,231 1 0	90,213 10	3,151 10 0	47 13 6	30,410 8 0	B.#00	481	6,374
COMPARISON.									
pmi for corresponding week of produce year mile of rajiway correspond-	25,834	6,713 18 1	9,668 10	842 3 0	500	7,085 15 2	890	*79	806
ing week of provious year	*****	801 11 11	*****	15 6 0	0 2 2	317 6 1	80	P#4 (A	441404
Montoffs Logit	137,360	84,990 15 6	62,118 20	7,163 3 0	44 15 P	37,135 2 8	0,085	435	6,400

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works

Department Circular No. XXI, Railway, dated 23rd July 1883.

	TO FOR WHEN PRURUANT			TO POR WEEK		A	RECEIPTS FR PULL 1985 TO 1 PEDRUARY 168	STH	I A	L RECEIPTS PRO PRIL 1880 TO H PROBECARY 1890	TH	Total	Mark -1
Ments E-mace rocked.	Receipta.	Per m.le worked	Monn miong- worked	Roceipta		Menn unicust worked.	Total remipte,		Hen unlease worked.	Total receipta.	Per mis worked pr week.	increase in 100.	Total decrease in 1800.
	Ra	Rs.		Re.	Re.		Ro.	Ro.		Ra.	Ra.	Rs.	Re.
204	7,089	817	221	6,220	250	82)	2,46,017	235	221	°2,40,083	235	*****	atros

Deducted Rs. 3:4 on account of difference between the approximate and audited figures to 31st December 1889.

EASTERN BENGAL STATE RAILWAY.

(Including N. B., Dacca, K. and D., and Assam-Behar Sections.)

Approximate Return of Traffic for week ended 8th February 1890, on 747 miles open.

							-						-					
	Оодсина	TRAPPI	ic.		Миконан		RAND MER PESC.	KR	AL	Other ea	tod).		Total	ai		TRAFFIC	TRAIS-MILI	ts zvz,
	Number of passongers.	Coacht			Woight carried.		Becai	pts.		includ stenm-b	ing		ORTH	nka		Coaching.	Merchan- dise.	Tofal
	146	Ra.	۵.	r.	M Ds.	8	Ro.	Å.	P.	Es.	A. P	-	Ro.	۵.	P.			ь
de traffic for the week	243,500 286	93,95 0 126		0	5,53,790 741		1,00,490			19,380	0 0	1	C.13,700 20J			23,147	20/200	87,112
199 t	704,290	5,64,930	0	0	020.09,62	L	0,07,840	Ü	0	84,013	0 0	10	1,00,480	0	0	105,124	105,808	270,720
Total for 6 weeks	017,700	4,48,850	D	0	35,48,470	0	7,68,000	0	0	1,03.850	0 0	1;	3,20,270	0	Ø	199,271	193,770	3/9.011
tal for corresponding, week of	177.142	\$1,809	0	0	4,30,483	0	67,963	0	0	10,673	0 0	,	1,66,537	0	O.	£2,670	23,786	66,436
it to corresponding date of	968	193	0	0	640	0	101	0	0	•1	0 0		224	0	Ð	******	993-4-	****
Brendin Year	832,011	4,20,960	0	0	29,57,293	0	8,90,483	0	(1	04,400	0 0	11	.05,546	0	0	125,688	139,323	285,011

^{*} Excluding steamer carmings.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

PIII PIII	PRORUARY 1	RNDING (59.	Baon13	TO FOR WEEK TO		L.	L RECEIPTO PE DRIL 1889 TO S FERNUARY 1886	TH	A	RECEIPTS FRO PRIL 1859 1 - 97 FEBRUARY 1890	14.7	Total	Total
10 10 10 10 10 10 10 10 10 10 10 10 10 1	Recorpts.	Par mile worked.	Moon mileage worked.	Receipts.	For mile worked.	Maan milaage worked.	Potelrecoipts.	for mite worked per work,	Menn mitoupp worked.	Total receipts.	tor mite worked per week.	1850-90	decrease is
	Ra. 1,64,637	Re	Pet	R. 8,13,700	Ra.	478	Ra,	Ra,	725	Ba. *99, 66,505	Ru. 1	Rs. 8.09,870	Ra.

[.] Andited up to week ending 14th December 1889.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 8th February 1890, on 125 miles open.

*	Loacata	LOACHING TRAFFIC.				Manorandina and Minneal Thappic.						Total			TRAPPIC TRAFE-MILES RUS.				
1 1 4	Number of				Woschit oarried.				(Priner on Leating			earnil.			Coaching.	Merchan- dine.	Total		
	7.	Tot.	A. P.	MDA	u .	Ba.	A. 2		Ro.	A. :	P	Ra.	A .	р.		-			
Total traffic for the Wast	\$ 30,870 208	11,520	0 B	67,810 488		8.200 25	0	0	100	0	0	14,610 116		0	8,776	1,936	8,678		
For previous 8 weeks of half	113,330	48,830	0 0	201,244	0	18,300	0	0	888	0	0	61,690	0	0	17,078	- 0,859	85,830		
Toul ford were	160,200	60,450	0 0	2,59,550	0	15,500	0	0	410	0	0	76,410	0	£1	20,614	10,788	\$1,613		
Potel for ourresponding work of	34,330	10,017	0 0	25,703	0	2,970	0	6	68	0	0	13,051	0	0	3,739	1,937	\$,070		
Per mile of gallway correspond	276	80	0 0	466	(t	26	0	0	160000			104	0	0	****	10011	2		
Previous year	167,136	04,072	0 0	2,76,341	0	15,658	0	0	8,730	0	0	71,399	0	0	\$1,374	31,178	8,40		

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Contral Railway.

			mr F.Z.										
RECEIPTS FOR WERE ENDING			Amenir Sin	To FOR WEEK PERSUARY 1	241120 -80.		t receipts par last to Off Par last.	BRUART		. RECEIPTS PRO 1889 TO STH PEI 1490	Total	Total	
Mean mileaste worked	Recepts.	Petr mile worked	Monti mileage worked	Recorpts.	Por mile	M-no milima- worked	Potat receipts	Per mile works	Mean mileage worked.	Total recespts	Per mile weeked p-r week	1839-90.	1450-d).
196	Be. \$3,061	Ra. 106	125	Ra. 14,520	Rn.	128	Ra. 6,17,554	120	185	Ra. *6,68,615	850. FED	Ra. 29,161	ka,

DACCA STATE BAILWAY.

Approximate Return of Traffic for week ended 8th February 1890, on 80 miles open.

	COACHIBO	TRAPPIC		Marchardi Ti	ad Hinn	3	Other earns	rugu	Total	1	TRAFFIC	TRAPPIC TRAIN-MILEO 2018.				
, 60 40 7	Number of pumpagers.	Coachin		Weight carned.		Receipt	п.	Ì	(entimated	1).	00.237190	pa,	Coaching.	Merchan- time.	Total.	
		Ba.	. P.	Mps.	8.	Ra.	A. 2	٠.	Ba. A	. P.	Ra.	A. P			- 1	
Total traffic for the wide	16,600		0 0	24,720		2,700 31	0		210 6 3 C	0 0	9,298		2,462	794	8,576	
For provious 5 weeks of half-	75,830	29,370	0 0	1,61,950	0	16,840	0	0	980 0	0	48,600	0 (11,336	4,596	15,44	
-Total for 6 weeks	94,830	34,751	0 0	1,96,470	0	19,040	0	0	1,160 0	0	84,950	0 0	13,819	4,916	1485	
Total for corresponding period of previous year period previous year period previous year and previous year and previous year.	14,500 165 89,254	4,510 88 96,602	0 0	9,578	0	1,042 13 7,418	0	0	64A 4 8 0 1,138 0		6,040 76 88,158	0 (833	17.77	

PINANCIAL YEAR

Approximate Statement of gross receipts of the Dacca State Railway.

	PHENCART IS		RECEIP	TA POR WERE !	Nabrie:	Tor it.	. uncuipta Pho 1905 re prit ban 1989.	M IST .	TOTAL APRIL	nnchipta pro 1990 to ath Phr 1890.	M WT BECART	Total	Total
Meas- military werked	Receipts.	Per mile sorked	Magh mileas worked	Receipts.	Per mote worked	Menn , aga marked.	Total receipts:	Pur mile starmed par messh	Menn ndosgr worked	Potal receipts	Ports of the second sec	1880-90	1686-90.
	Ra,	Ba.		Ro.	Re.		Ra.	Ra.		Re.	Ra.	Re.	Ra.
86	A 6,040	70	94	9,500	100	D6	72,68,681	67	0.6	*2,30,678	gs.	61,940	91 000

NALHATI STATE BAILWAY.

Approximate Return of Traffic for the week ending 15th February 1890. on 27 miles open.

	Coachine	Munchand	RAP	PIC.	-1	Otherear				TRAFFIC TRAIN-MILES BUS.						
41	Number of passengers.	Conchi		Weight carri	ed.	Recall	bu.	-	e conference	and Jr.	OBTHH	ngo.	.1	Conching.	Merchan-	Total.
		Ra.	A. P.	M pa.	8.	Ro.	4. 1		ft u.	4. 9.	Rn	Ar	P.			
onal tradic for the wook per mile of railway to per with of railway to belf-	3,676 131	1,344 66	0 0	12,1nh 447		861 81	0 1		1P	0 0 0 0	2,126 78			800	854	253
No bleading a game of metr.	17,164	5,971	0 0	76,490	0	4,677	0 1	5	80	0 #	10,728		0	2,2,436	1.418	6,251
Total for 6 weeks	90,740	7,218	0 0	80,497	0	A.536	0 (9	90	11 0	12,458	0	0	3,365	"1,000	5,014
								-								, 00
perions vest	8,613	1,329	0 0	12,938		R\$7			- 8	0 0	8,167			504	1991	1,696
of week of previous year	120		0 0	478	0	31	0	D	400 004		80	9	0	961 636		000000
previous Fuel	21,867	6,235	0 0	1,06,888	0	A,774	0 (0	106	0 0	14,114	0	0	8,417	3,985	7,278

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Bailway.

16TH PERSONAL 1859. RECEIPTS FOR WEST SENDING						AF	RECEITE PROBLEM 1889.		A.P.	RECRIPTS PROTEIN TO 16 SUNUARY 1859.	2776	Total	J Total
Yean whete	Reestple	Per Mean	Receipts.		Mean milospe worked.	Total receipts.	where lost murrang murrang	Women transpace worked.	Pulai receigite.	Par m.le Worked per week.	1850.00	decrease in	
834			17)	Ro. 2,126	Ra.	271	Ra. R9,858	Ra. 75	274	Ba., 89,000	Ra. 74	Re.	Ra.

TIRHOOT STATE RAILWAY.

Approximate Roturn of Tragic for the week ending 16th February 1890, on 273 miles open.

the second secon	transpire.			-									-74.00					
	Содонан	O TRAFF	CKAPFE.							Other earnings						TRAFF-MI		
	Number of passengers.	Coach			Weight carried.		Rocett	of fig.		(estima	ted)	l.	Tota		*	Coach nin.	Merchan-	Total
		Ha.	٨.	P.	M too.	ě .	Ra.	Α.	r.	Ha.	A.	2.	Ra.	4	P.		1	
tel traffic for the week	60 417 170	9 0,985 70		0	8,23,234 1,891	0 Q	38,291 141		0	4,275	0	0	63 661 F20	0		8,163	19,718	18,666
7067	983,752	1.27.500	0	0	13,72,237	0	1,65,438	0	0	88,476	0	0	3,11,494	0	0	35,6%	\$8,767 L	H0,281
Total for 6 weeks	820,109	1,44,680	0	0	17,05,471	0	1.53,849	0	0	22,751	0	0	3,75,155	0	Q	61,607	54,312	509,715
COMPANISON.							100					i				_	0.	19_
to for corresponding week previous year	61,057	21,695			1,87,119		12,949			3,104		0		0	1	5,094	6,204	34,100
12 to corresponding date of	190		0		208		45	0	0	-	0	0	13:	0	0.0	******	200.000	- 1
platically hears	270,414	1,03,406	0	0	0,19,397	0	85,102	0	0	21,414	0	0	2,09,982	0	0	17,900	37,407	-75,367

[•] Steam-boat carnings excluded in calculating "Total carnings per mile of Railway."

FINANCIAL TRAK.

Approximate Statement of gross receipts of the Tirhoot State Railway.

Ann Ann	TO FOR WHEE	nnding sky,	Rucer:	TO FOR WERK	RNDING 1890.		PRINCEPTS FROM PMIL 1888 TO 16 PRINCERT 188	TEM	A	i prenipys vho pair 1885 to 13 Pubuuary 1896	BIH	Total	Total:	
01, *4ge /1914	Beccipia,	Per hill worked.	Muan mileage lwswked	Recutpts.		Monn mileage worked.	Total requipts.		Moan mileage worked.	Total escolpts.	Per mile worked per week.	111CTRRAF 1D 1889-99.	degraar in	
	Ro	Re		Bo.	Ro.		Ra.	Re.		· Ra.	Re.	Ro.	Re.	
16T	80,771	161	978	05,061	283	263.04	26,80,613	126	273	18,69,091	185	0,02,00g****	101154	

			-0				-			
	DARJEEL	ING-HIM.	ALAYAN	RAILV	VAY COS	IPANY, L	imited.		R	la .
	imate earning conding period		ending 25t	h Janua	лу 1890 а.	\$	190		8,4 8,4	_
	Increase	***		441	· 67	and t	***	_		20
			5	_				Ra.	A.	P.
Receipt	is per mile for ponding p rio	d of 1889	ding 25th	January 	1890	404	0 M 0	166	11	0
	Inomaso	***	***	***	4 000	400	***	0	6	8
Repeint	ts from 1st to	25th Janu	rtv 189∂	0.01			100		26,8	18
	ponding perio				***	***	al		21,7	88
100	Increase	**** <	006			***	814		1.1	95
4 4	- 9	A. 5					4			
The state of					-					0
D.	ARJERLIN	G-HIMAL	AYAN RA	ILWAY	COMPA	NY, LIM	LTKD. 🚓	6	E	La.
Anpror	timate earnir	igs for weel	onding ls	t Februa	ry 1890	0.1 000	9 # 9		7.8	24
Corres	ponding peri	od of 1889		* 0 *	***	+4.6	0.04		8, l	80
	Decrease	400	0 0 0	+++	000	0.04	000		8	56
	up.							Ra.	Α.	P.
Receip	ts per mile fe	or week end	ing 1st Pel	ruary 1	890	***		141	10	4
Corres	ponding perio	od of 1889	161	0.00	909	101	800	160	6	6
17 - 12 - 12 - 12 - 12 - 12 - 12 - 12 -	Decrease	+da	***	0.00	+84	.000	0.00	18	13	2
Receipt	ta from 1st Ja	nnuary to la	t February	1890	001	000	00%		33,2	
Curres	ponding perio	d of 1889	***	4.8.4	***	.01	* * *		32,1	169
	Instance							gan		239
	Increase	9 0 6	0 4 5	***	660	***	400			200



The Calcutta Gazette.

WEDNESDAY, MARCH 5, 1890.

OFFICIAL PAPERS.

Non-Subscribers to the GARETTE may receive the Supplement separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.

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Abstract of the Proceedings of the Council of the Lieutenant Governor of Bengul, assembled for the purpose of making Laws and Regulations under the provisions of the Act of Parliament 24 and 25 Vic., Cap. 87.

Tue Council met at the Council Chamber on Saturday, the 22nd February, 1890.

Present:

The Hon'ble Sir Steuart Colvin Bayley, R.C.S.I., C.I.E., Lieutenant-Governor of Bengal, presiding.

The Hon'ble Sir Charles Paul, K.C.I.E., Advocate-General.

The Hon'ble F. B. PEACOCK.

The HON'BLE P. NOLAN.

The Hon'BLE T. T. ALLEN.

The Hon'ble SIR HENRY HARRISON, ET.

The Hon BLE SIR ALFRED CROFT, K.C.I.E.

The Hon'ble Da Mahendra Lal Sircar, C.I.E.

The Hon'BLE C. H. MOORE.

The Honeble H. PRATT.

The Hon'ble Shahzada Mahommed Furbokh Shah.

The Hon'HLE DR. RASH BEHARY GHOSE.

GALCUTTA PORT BILL.

The Hon'ble Siz Henry Harrison moved that the clauses of the Bill to consolidate and amend the law relating to the port of Calcutta, and to the appointment of Commissioners for the said port, be further considered for settlement in the form recommended by the Select Committee.

He said:—"In moving that the Bill be taken into further consideration, I would like to say one word regarding the notice, which I have given for the suspension of the Rules. I am in hopes we may find that there is no matter of serious controversy between us to-day, and therefore there is no reason why the Bill should not be passed at this meeting of the Council. At the same time I will not press that motion, if we find that there is any considerable difference of opinion. I may say that there is nothing further from my mind than to ask the Council to rush the Bill through, or to force its hands in any way. But supposing we find the remaining sections are settled by general agreement, it seems a great pity that the Legislative Council should be called together for a formal matter. It will depend a great deal upon the course the preceedings may take."

The Motion was put and agreed to.

The Hon'ble Sir Henry Harrison also moved that the following proviso be added to section 96 of the Bill:—

Provided that any order made and published under this section which shall have the effect of rendering it unlawful to land or ship any goods out of or into any vessel at any wharf, quay, stage, jetty or pier made by any private person for the convenience of private traffic shall entitle the owner thereof to sue for compensation, and to recover the same compensation, if any, that he would have been entitled to sue for and recover, had the wharf, quay, stage, jetty or pier been removed, filled up, or destroyed under the provisions of section eighty-five.'

He said:—"The amendment I move should be considered from two different points of view. On the most important, viz. the point of principle, I have found myself entirely in accord with the hon'ble member who represents the views of the Chamber of Commerce, and that is, that if any jetty, wharf or other structure is closed under section 96, there is no reason way the owner should be put in a worse position than when it is dealt with or destroyed under section 85. It may be because there is a certain affinity between shallowness and clearness; but, certainly, whatever the cause may be, it seems to me manifestly clear that section 96 is not intended as a section for evading the principle we have conceded in section 85. If the existence of any private wharf, jetty or other structure is disadvantageous to the good administration of the port, or interferes with the navigation of the river, it becomes the duty of the Port Commissioners to obtain the leave of the Government to close it of to remove it; or it may enter into terms with the owner of the wharf or jetty for the proper use of it under section 95.

"The primary object of section 96 is, that when the Commissioners have been at the expense of putting up wharves for the convenience of the public, the well-being of the trade of the port may depend upon the Commissioners being able to put such wharves to their full use; for if that cannot be done, then the loss would be incurred simply at the expense of the trade of the port. Therefore, it is necessary that the Commissioners should have power to insist

upon the trade coming to the wharves which they have provided.

"Incidentally, that gives them ample power of acting against private jetties or wherees which they may have allowed to stand under section 85; because they may say that, all the trade within a certain distance, must come to their jetties and wharves, and therefore the use of any other jetties or wharves which may have been in use up to that time must be stopped. At the same time it seems perfectly clear that, it will not in the least degree be just that the Commissioners should be put in a better position than if they had dealt with the jetties and wharves under section 85. Therefore, the intention is, that the owners of these private structures should be placed in precisely the same position as regards the right to compensation, as they would have been if the Port Commissioners had thought fit to proceed directly under section 85.

"It may be said that you ought not to give the same compensation for jetties which are allowed to stand, as for those which are removed. This is a small point, and the objection appears to me insignificant. If you do not deprive them of the jetty itself, but only close it, possibly it may be of some material use; but, even in that case, I think it far better to safeguard the interest by saying that they shall have the same right to compensation which they would have had, if the jetty had been removed altogether, than to make any wire-drawn distinction as to what deduction should be made from the compensation. So much as to the principle, and I hope the Council will be entirely in accord as regards the principle.

"Then comes the other difficulty as regards its wording. A difficulty arises as regards the omission or inclusion of the word 'docks' which cannot be avoided, because section 85 makes no allusion to private docks. Section 85 only refers to the removal of structures below high-water-mark, whereas section

96 refers to docks. It says:—

When any dock, wharf, quay, stage, jetty or pier for receiving, lauding, or shipment of goods from vessels (not being sea-going vessels) shall have been made and completed with all proper appliances in that behalf, it shall be lawful for the Commissioners in meeting, with the sanction of the Local Government, by an order published in three consecutive numbers of the Calcutta Gazette, to declare that such dock, wharf, quay, stage, jetty or pier is ready for receiving, landing, or shipment of goods from vessels (not being sea-going vessels); and in the same way to order that within certain prescribed limits, to be therein specified in that behalf, it shall not be lawful, without the express sanction of the Commissioners to land or ship any goods out of, or into, any vessel (not being a sea-going vessel), of any class specified in such order, except at such dock, wharf, quay, stage, jetty or pier.

"As a matter of fact there are no docks in existence for landing and shipping goods from inland vessels, and if they exist, they must be on private land. Therefore, there is this difficulty. If we put in the word 'dock,' then we have the difficulty in regard to section 85; and if we omit the word 'dock,' then we do not meet the case of a dock being found within the limits of the port. But as matters stand, it is not a matter of consequence, because there are no such docks in existence; and it is extremely improbable that any private person will be at the expense of constructing a dock for the loading and unloading of goods from inland vessels: as for that purpose, jetties or wharves are so manifestly more convenient.

jetties or wharves are so manifestly more convenient.

"If the Hon'ble Mr. Moore thinks that the section would be improved by the insertion of the word 'docks,' then the Council would be in a difficulty, because we should be referring to a section which did not authorise it. But the better course seems to me to be to leave out the word 'docks,' seeing that there are no docks of this kind to be closed. You will see that the Hon'ble Mr. Moore has withdrawn his amendment in which the word 'docks' was inserted, but I think he will raise no objection to the word being omitted in this section; and therefore I more that the following provise be added to

section 96 of the Bill:-

Provided that any order made and published under this section which shall have the biffect of rendering it unlawful to land or ship any goods out of or into any wharf, quay, stage, jetty or pier made by any private person for the convenience of private traffic shall entitle the owner thereof to sue for compensation, and to recover the same compensation, if any, that he would have been entitled to sue for and recover, had the wharf, quay, stage, jetty or pier been removed, filled up, or destroyed under the provisions of section eighty-five.

The Hou'ble Mr. Moore said:—"I would explain that I withdrew my amendment to section 96 on the understanding, there was some technical objection to it; and because to the best of my belief, the one submitted by the Hou'ble Sir Henry Harrison meets the principles I have been contending for, of proper compensation being made for acquiry of private property, which has already been admitted and legislated for by this Council in section 85 now passed, and has just been clearly expressed again by the Hon'ble Sir Henry Harrison. This reform, however, would have been entirely nullified if section 96 were left as it now stands in the Bill; for it gives absolute powers of closure of private wharves, which is of course exactly equivalent in effect to seizure and removal finder section 85, without any provision for compensation to the parties injured, and a very serious injury might be done, if, for instance, for power to ship and land goods at their doors, there were substituted a mile or so of cartage to ship and

land goods at a Commissioners' jetty distant from them which, under this section, the Commissioners have power to enforce upon any private person,

should it suit their purposes to do so.

"I have no objection to the omission of the word 'dock,' because the section deals with landing and shipping, and in the interpretation chapter of the Bill, the word 'wharf' is described as referring to any place used for landing and shipping goods. I trust there is no necessity to urge on the Council to carry this amendment; and that the argument against it may not be brought forward that, because it was not done in 1370, when the subject was thoroughly threshed out, it should not be done now. The principles involved in the alterations in these sections were not threshed out in 1870. No one interested noticed or foresaw the effects of the sections as passed, nor the gross abuses of power to which it might lead, until actual experience forced it upon public notice.

"That experience found in the manipulation of this very section 96, as set forth in the memorial of the Chamber of Commerce, i can assure this Council, contains no exaggeration at all, and is in itself ample justification for the addition to it of the proviso moved by the Hon'ble Sir Henry Harrison. It conveys, I believe, nothing more than the acceptance of the principle now contained in section 85, and admitted at our last meeting in the plainest terms by the Hon'ble Messrs. Peacock and Nolan, as an undisputably fair axiom, viz., that private property must not be subjected to summary confiscation, but only made liable when circumstances of public need necessitate it to be

acquired on payment of proper compensation.

"I would add one point. I am not sure whether, as the section now reads, it is necessary to get the sanction of the Local Government before notifying the closure of a private wharf. I only read it to apply to notifying that the Commissioners' wharf is ready. If, therefore, such is the reading, I would wish to move that the necessary words be added to make it obligatory on the Commissioners to obtain the Local Government's sanction to the Act before closing a private wharf."

The Hon'ble Mr. Nolan said:—" I rise somewhat early in this discussion. because, while quite accepting the principle of this amendment, I see objections to the manner in which it is worded, and think that, before it can be accepted. it should be recast. In the first place, it confines the payment of compensation to cases in which orders are issued under section 96 closing wharves to country boats; although it seems that, on the principle enunciated by the last speaker, and accepted by the mover, compensation should also be given where wharves are closed to sea-going vessels by an order under section 96. And in the second place, I consider that the compensation, when allowed, is calculated on a wrong principle, and is excessive in amount. The amendment would entitle the owner of a wharf or pier to be compensated for a simple prohibition to land one class of goods to the full amount which he could claim, if his wharf had been entirely destroyed. This is a novel rule, and I fail to see anything in its favour. Take, for example, a wharf constructed to land coal from sea-going vessels; if, by an order under section 96, the Port Commissioners prohibit the owner from using it for country boats, they probably do him no harm whatever. and it would be absurd to make them pay as if they had altogether annihilated the value of his property. It should be remembered that the definitions of the Bill are very wide-almost anything near the river may be treated as a dock or pier, or wharf, and its full value demanded on the issue of an order of the kind contemplated. I do not understand how the Hon'ble Sir Henry Harrison stated that, there is no private dock in Calcutta; a 'dock' being defined to include 'all wharves, warehouses, and tramways.' [SIR HENRY HARRISON:—"Appertaining to a dock."] That is so; but a 'wharf' is defined as including any foreshore used for loading, a pier to include any floating barge or pontoon, for whatever purpose used. Now, if we prolitibit landing certain goods on a foreshore, should we, as now proposed, pay the full value of the foreshore? It remains useful for other purposes. And if we pass a similar order in regard to a pontoon, must we give the price of the pontoon as if it had been consumed by fire? The measure of compensation should be the loss caused by the order passed, not the loss which would accrue had action been taken of a nature entirely

different. The matter will become very serious if the port extends or changes. This is not like the section we discussed last Saturday, a provision never enforced, but the key to the whole work of the Port Commissioners.

"I am inclined, also, to think that the principle on which compensation is to be assessed should be considered further, with a view to excluding the large claims which will be made on account of loss by port dues. These dues will be useless, if the Commissioners have to indemnify beforehand those who will have to pay them. The amendment has not been long in the hands of members, and I have but recently considered it in detail, being under the impression that it was accepted by all parties, and would be found unexceptionable. I am not, therefore, prepared with a draft embodying the view put forward, but hope that the member in charge of the Bill may be able to meet these objections by modifying his motion."

The Hon'see Mr. Allen said:—"When I first saw the amendment standing in the name of the hon'ble member in charge of the Bill, I had resolved to offer the strongst opposition I could find to urge against it; but that determination was afterwards somewhat modified by the consideration that, under the present condition of things, it has little or no practical bearing. But the amendment offends grievously against principle, the common principle of honesty.

The Hon'ble Sir Henry Harrison and the Hon'ble Mr. Moore have both treated this amendment of section 96 as if it was simply an appendage to the amendment of section 85, which the Council accepted on the last occasion. This I regard as an entire mistake. The provisions of section 96 are totally and altogether separate from any of the provisions contained in section 85, nor do they relate to the same state of things. Section 96 operates on the port as it now exists. Section 85 comes into operation only in the event of the port

being extended.

"On the last occasion you, Sir, were pleased to remark that the whole discussion stirred up by the Chamber of Commerce was for nothing better than a phantom. The amendment which is now before the Council is a provision to guard against danger from the accident of a phantom. Were this matter on the footing on which both the Hon'ble Mr. Moore and the Hon'ble Sir Henry Harrison have treated it, I should no more think of offering a word of opposition, than I would if the Hon'ble Sir Henry Harrison had chosen to stand godfather to a provision to secure damages for infringement of patent to those joint-stock companies of Laputa, who held exclusive right of extracting sunbeams from cucumbers. Under present conditions, no practical effect can follow either from the section itself or the amendment.

But, as a matter of fact, there may arise circumstances when they would assume importance. A serious principle is involved in the amendment before the Council; and, under certain conditions, the question may become one of practical importance. Our section 96 of the Bill is no new section. The Justices for the Port of Calcutta were appointed in 1.66, when, for the first time, an attempt was made to afford facilities in the landing and shipping of goods; and they were vested with certain powers. Among those powers were these, that when they had provided sufficient facilities for discharging and loading, they should have the right to insist upon ships using those facilities and paying tells for them. Those powers had been given by the Act of 1866, and were continued in the Act of 1870, which distinctly gave a monopoly of the right to levy tells; and the latter part of this section, by which they were authorised to forbid the use of other places than those they had provided, was simply the means by which that monopoly was declared.

"Furthermore, a section was put into the Act (section 33 of Act V of 1870) by which they were strictly prohibited from alienating any powers which, under the Act, they had acquired. The case under this section is exactly similar to that of a public ferry. As soon as a public ferry is established and let to a farmer, that farmer is entitled to a monopoly to cross over passengers within a distance of two miles below and two miles above his ferry. Within that distance of four miles no person can run a ferry in opposition to him. This is the principle which the section of Act V of 1870, as it stands, rigidly

insisted upon:

"Now, Sir, having created this monopoly in favour of the Port Commissioners, they were by Act IV of 1880 authorised to go into the market and borrow money on the security of their monopoly, and by the same Act their

tells were pledged to the public as security. The amendment which is now before the Council distinctly cuts at the root of that monopoly. It recognises the right of private competition with the Port Commissioners; and having destroyed the monopoly, it says that, before the Commissioners can re establish that monopoly, they must buy up all the rights along the bank of the river. I consider, therefore, Sir, that in passing this amendment, we shall be guilty of a serious breach of faith with those persons who have advanced their money.

"It may be quite possible that the assets in the hands of the Port Commissioners are sufficient to meet all liabilities. But be that as it may, I consider the Council should not, after having passed an Act pledging certain rights and certain revenues as security, come forward now, and without the consent of the debenture-holders, without even consulting them as far as I know—probably if they had been consulted they would have consulted Mr. Woodroffe, and we should have had a separate opinion as to how these persons' (the creditors) interests will be affected, then perhaps the Council would have been in a position to select a safe path on which to travel by taking the resultant of the conflicting responses. But without the consent of the debenture-holders, and without any regard for their interests, and without consulting them, to cut down the monopoly by these words will, it appears to me if the proposal be carried,

reflect no credit on this Council

"As a matter of fact, however, I believe that no result will follow under the present condition of things, even were the legal monopoly cut away; and for this reason, that between Kidderpore and Cossipore, the present practical limits of the port, the whole of the foreshore on this side of the river is already the property of the Port Commissioners. Though legally the monopoly would be destroyed, practically the monopoly would be continued, and for this reason I do not think it worth while to offer much opposition to the proposal. But I must insist on the point of principle. must point out that if such circumstances arise as that this foreshore between Kidderpore and Cossipore should not be available for the landing and shipping of goods, and it should become necessary that the shipping be sent further down where the whole foreshore belongs to private individuals, the consequences, if this amendment stands in the law, would be something beyond all calculation in the way of expense. As long as the monopoly of tolls exists in the Commissioners, whether this part or some other part of the river bank is used for shipping, it is perfectly immaterial to the debenture-holders. As long as the shipping comes to the river, and the tolls are levied, their security will be untouched. But if the monopoly be taken away, and anything happened to compel the Port Commissioners to remove their operations where the wharfage rights of every foot of the land would have to be bought, it appears to me that the security of the debenture-holders would be uncommonly weak.

"We know that at present the general opinion about the docks at Kidderpore is, that they are very likely to prove a white elephant, to provide provender
for which may use up a large part of the surplus resulting from the other
sources of revenue which the Port Commissioners enjoy. This may be true
or it may not be true, still its possibility ought to be a reason why caution
should be exercised in touching in any way the security upon which money

has been advanced.

"In the definition of 'wharf' which is given in this Act, it will be found that the word 'wharf' includes 'any bank of the river which may be improved to facilitate the loading or unloading of goods.' Suppose now that the river between Kidderpore and Cossipore became useless, six coolies working for six days on the banks at Garden Reach would create a wharf, and every owner who has a frontage to the river can thus, by sloping off a part of the bank, create a wharf, by which he would be entitled to compensation at any time, should that neighbourhood be afterwards utilised by the Port Commissioners for discharging cargo. The amount of compensation for which the Commissioners would thus be rendered liable would be vastly greater under those circumstances, than possibly either the Hon'ble Sir Henry Harrison or the Hon'ble Mr. Moore has any idea of. I take it that, when a jetty-builder comes in under section 85, the measure of compensation he would receive from a Civil Court would be at least twenty years' purchase of the toll on every bale of goods that passes over the wharf destroyed, and twenty years' purchase of the curtage to which he would be rendered liable by the removal of his jetty. It, therefore, circumstances should give any practical effect to this amendment, the expense would be such as to swamp the Port Commissioners completely.

"I think, therefore, that, on the question of principle, which is what I am mainly interested in, the Council will be wise to allow the law to stand as it has existed for the last twenty-four years, and as it has again been enacted by the Government of India in the Act passed ten years ago for the port of Rangoon, and which principle is also asserted in the Act passed by this Council three years ago for the port of Chittagong. By letting this amendment come into our Act. we shall break completely adrift from all the Port Acts passed for this side of India from the commencement.

"If the debenture-holders had been consulted, it is highly probable they would have taken the opinion of Mr. Woodroffe; and there can be little doubt what the opinion of Mr. Woodroffe would have amounted to, had be been consulted. It is safe to say that Mr. Woodroffe would have concluded thus: 'If the Bengal Council accept the amendment of section 96 proposed by the Hon'ble Sir Henry Harrison, the Government of India should be memorialised to with-

hold its assent to the Act."

The Hon'ble Sir Charles Paul said:—"When the poor inhabitants of the Suburbs of Calcutta set up a cry that they would be ruined by the excessive taxation to which they would be subjected by reason of the extension of the municipal limits, I think the mover of the new Municipal Act told them that it could not be helped, because the extension of the municipal limits was necessary for the improvement of the health of Calcutta, and that private circumstances and private losses must give way to the public good. I think that precisely the same argument will apply here, that it is necessary for the improvement of the port of Calcutta, that the Port Commissioners should be armed with powers for re-imbursing themselves for the duties incident to their office.

"The Port Com nissioners have, for a great many years, kept the river in a proper state, and incurred considerable expense: the gentlemen who have private wharves have had the benefit of all that expense without paying anything towards it; and from the point of view I look at it, they have been sufficiently remunerated for any private wharves they have constructed, namely, they have had the use, without paying for the improvement of the river which

enabled them to use those wharves.

"Now, on principle, what is the grievance of which they complain? As to the analogy which has been put forward by the Hon'ble Sir Henry Harrison with an air of fairness, I wish to say a word. I shall presently show that there is no analogy between the two cases. They cover entirely different grounds, and come under entirely different heads. They complain that, they have hitherto been in the habit of landing and shipping their goods in a convenient way at wharves erected by themselves; that, by extending the limits of the port so as to include those wharves within such limits, they will be disabled from using the conveniences which they had been using before, and they will be compelled to pay tolls for the landing and shipping of their goods. That is the main inconvenience that is thought of here, and I hardly think that the compensation which they claim is simply the value of the structure or thing which they have put up. If that is all, the loss which they will suffer will be very little indeed, because they have had the use of those structures for a number of years. But they wish to get some means of recouping themselves with regard to the tolls which they will have to pay; or, in other words, they wish to get a monopoly of their own against other persons, their competitors in trade.

The object of the amendment is to put them into a more favourable position; but if that object is once perceived, it is enough for the Council to say that such a position cannot be telerated. If the object is simply to have the value of their structures, wharves, jetties and so forth, then by all means let it be put in exact words, namely, that where a person is deprived of the use of a wharf by reason of the operation of section 96, the Port Commissioners shall pay him the present value of the wharf, plus the appliances used with such wharf. Let the amendment be so devised, but the present vague way of putting it, is objectionable. I will now refer to an Act of Parliament by which privileges have been taken away without the grant of compensation. The Statute, 10 and 17 Vic., Cap. 93, was passed for the levy of

tolls in certain harbours in Scotland.

"Under the provisions of this Act, the Burghers were entitled to apply it. If they did not wish to apply it, they need not. But if they applied it, the

effect produced by section 15 was the abolition of all exclusive privileges, and the levy of tolls equally on all persons. Here is an Act which, when applied, took away all privileges which had previously existed without providing compensation. Now the object of the Hon'ble Sir Henry Harrison's amendment is, to give compensation for this privilege of landing and shipping goods

from private wharves.

"I say that the object of section 96 is to take away a privilege which these persons have hitherto enjoyed, and the idea of putting every person on precisely the same footing is not inequitable, if it be conceded that the object is the improvement of the navigation of the river. And that being so, no compensation should be given. Although section 96 provides for no compensation, yet this amendment says that, compensation may be given for the immediate results of that provision. What is the meaning? The proposed proviso says, to recover the same compensation that he would have been entitled to sue for and recover, had the wharf, &c., been removed, filled up, or destroyed under the provisions of section 85.' Under this section, a claim may be made for the value of the structure and all the profits derived therefrom; in other words, the capitalised amount which will represent the value of the tolls and appliances for twenty years. No doubt, the amendment has been made as guarded as it possibly can be. Still there is a difficulty about it, and I say that, if the amendment is persevered with, it must be drafted on other lines. The exact thing for which you are to pay compensation must be stated.

"Now, it is stated by the Hon'ble Sir Henry Harrison that, if you pay compensation for the removal of a jetty, why should you not also pay compensation for prohibiting the use of a jetty? I shall give a very short answer to that. I say that they are two very different things. The removal of a wharf prevents the person who had that wharf from using it But a prohibition to use a particular wharf does not necessarily have the same effect as its removal. If the Commissioners do not remove or destroy a particular wharf or jetty, and allow such wharf or jetty to remain, they are entitled under the provisions to permit the use thereof. There appears to be no impediment to their entering into a contract for the landing and shippings goods as before upon the pay-

ment of tolls, less the value of labour and appliances.

"The argument by analogy is a powerful argument, if you can show the

analogy. The difficulty is to show the analogy.

"There is another objection. This Bill is, divided into various parts. Now section 85 comes under Part VII, Of the erection of wharves, quays, stages, jettys, piers or moorings,' and section 85 allows of the removal or destruction of private wharves, &c. Then we come to Part VIII of the Bill, regarding the landing and shipment of goods. These two parts of the Bill treat of two

distinct matters. One has nothing to do with the other

"One further remark remains, and that is, the exceptional character of the legislation proposed. The Hon'ble Mr. Nolan has pointed out-and I think it is the very best possible answer to give—that if section 96 is to be amended in this way, section 94 should also be amended. The general commercial interests under section 94 are not represented; but though they are not represented, as no claim is advanced, you are bound to give those who will be affected under section 94 compensation in the same way as is proposed under section 96. We have a small conclave of jetty-owners coming forward who have been described as the possessors of property of enormous value on the banks of the river, and we have been called upon to pass this exceptional legislation to meet a clamour which has been raised. That is a matter to which I do not think we should yield."

The Hon'ble Dr. RASH BEHARY GROSE said :- "I accept, without the slightest reservation, the principle which underlies the amendment of the hon'ble memher in charge of the Bill, the right to claim compensation being, as I understand, confined to cases in which the works mentioned in the amendment have been lawfully erected, or have been used for a very long time. It has been suid that if the principle is sound, it ought to hold good also in the cases provided for by section 94 of the Bill: that may be so But that is no answer to the amendment which has been proposed by the Hon'ble Sir Henry Harrison, because, I take it that two wrongs cannot make a right. It may be a perfectly good reason for adding a similar amendment to section 94; but surely, it is no reason whatever for saying that, although in other respects the principle is a good and proper one, it ought not to be accepted because you have not applied

it to a certain class of cases to which, if the principle is a proper principle, it

ought to apply?

"The Hon'ble Mr. Allen, who spoke in opposition to the amendment, pointed out in the first place that a provision similar to that contained in section 96 had been in the Statute Book since the year 1866, and that nobody ever thought of making any complaint till the Hon'ole Mr. Moore, or rather the Chamber of Commerce whom he represents, thought of objecting for the first time when the present Bill was before the Select Committee. The whole contention, if I may say so, is, that the injustice was perpetrated long ago, and that therefore it should be left unredressed. But if the principle recognised by the amendment is a proper one, I do not think that the mere fact, that the wrong has been in existence for thirty or for fifty years can invest it with the privilege of prescription. The Legislature is not fettered by any statute of limitations.

"I will assume for the purposes of my present argument that, the principle of allowing compensation is a proper principle. If it is not, there is an end of the question. But assuming that it is a proper principle, are we to refrain from applying it, because it is going to be applied for the first time in 1890? Wrongs do not cease to be wrongs, simply because they are ancient wrongs. I would on this point only refer the Hon'ble Mr. Allen to that well-known work, Guilliver's Travels, from which he borrowed his allusion of extracting sunbeams from cucumbers. I confess I am not much pressed by the argument that, we should be doing a wrong to the debenture-holders, if we accepted the principle of giving compensation for injuries done to private persons. I think that the owners of private wharves have their rights, which ought to be protected at any rate to the same extent as those of the debenture-holders. And we cannot overlook the rights of these owners out of tenderness for the interests of the debenture-holders holders of merely floating securities as they are very properly called) who, we are told, invested their money on the faith of a tacit pledge that our statutes, like the laws of the Medes and Persians, are to remain unchanged throughout all time.

"Then, it is said that the Kidderpore Docks are likely to prove a white elephant. Many people, I think, besides the Hon'ble Mr. Allen, are of that opinion. [Mr. Allen:—"I did not say that, that is my opinion. I said that many people held that opinion."] Then I beg the hon'ble member's pardon. However, it has been said by a great many people that the new docks are likely to prove a white elephant. If such should unfortunately be the case, I do not see any reason why the owners of private wharves are to be singled out for the honour of feeding that rather expensive animal. I am not aware, nor has it been suggested, that there is any provision in any Act now in force, which renders it absolutely unlawful for private individuals to have wharves for any of the purposes mentioned in section 96; and, as I have already said, it is only when a thing has been erected lawfully or is being used for a lawful purpose,

that we propose to give compensation.

"But while agreeing with the Hon'ble Sir Henry Harrison as to the principle, I am unable to agree with him as to the measure of compensation which should be allowed in such cases. It has already been pointed out very forcibly by the Hon'ble Sir Charles Paul that, when you render a particular use of a particular building or work unlawful, you do not destroy the thing itself; and that the measure of compensation applicable in the one case, cannot be properly

applied in the other case.

"It has also been pointed out that, if the section is allowed to stand as it is, it must open a very wide door to all manner of claims being set up, of which some notion may be gathered from a perusal of compensation cases; and their name is legion, which appear in the English Law Reports. When owners fancy that their private rights are invaded or are unlawfully affected, they are seldem moderate in their demands. I have no reason to believe that the Indian claimant will be 'entirely free from this failing, which may not improperly be regarded as one of those touches of nature which make the whole world kin.

"The learned Advocate-General has suggested one way out of the difficulty. I venture to suggest another, which I think is likely, at I east in my humble judgment, to meet the justice of the case. And what I propose is, that the last part of the section should run thus: 'shall entitle the owner thereof to sue for compensation for any depreciation in the value of such works in any case in

which he would have been entitled to sue for and recover, &c.'

"This will have the effect of laying down a sufficiently definite rule, instead of the somewhat vague and indefinite measure of compensation allowed by the Hon'ble Sir Henry Harrison's amendment. It may be said that, we accepted that indefinite standard of compensation when we passed, on the last occasion, the amendment made to section 85. But, as has been already pointed out, the two cases are not precisely the same, nor are they even similar, and I think there can be no harm in laying down a different measure of compensation in cases in which you are only prohibited from putting your property to a particular use, from that which is applicable to cases in which the whole structure is absolutely destroyed.

"My objection, therefore, as I have already said, is not to the principle of the amendment, but only to the measure and extent of compensation to be

conceded.'

The Hon'ble Sir Henry Harrison said in reply:—"I have no wish to underrate the objections raised by the Hon'ble Sir Charles Paul and the Hon'ble Mr. Allen, but those objections are indefinitely weakened by the consideration that they do not, as the Hon'ble Dr. Rash Behary Ghose does, suggest any alternative course. Therefore, they must clearly be understood as willing to pass section 96 in its present form, and, if so, no objection raised by them can, for a moment, bear comparison with the weight of the objection to letting that section stand unamended. As the Hon'ble Mr. Nolan stated correctly at the last meeting, the section corresponding to section 85 in the old Act has never been used; whereas the section corresponding to section 66 has been used on many occasions in a manner which I and the Port Commissioners are quite prepared to admit has been harsh, if not more than harsh. Whenever the Commissioners have wished to get rid of a private wharf or jetty, what they have done is, not to remove or destroy it, but to open a wharf or jetty of their own in the neighbourhood; and then to say that the private wharf or jetty shall no longer be used.

"Therefore, it comes to this that, we have spent weeks of preparation and hours of discussion in altering the earlier section, which is practically of little importance, and then when we come to the section which is the real fons at origo mali, the retention of which would make the earlier amendment absolutely useless, we are to fold our hands and say non possumus. I must, speaking for myself, say that this would be playing with the remonstrances of the Chamber of Commerce. I do not think that, on careful reflection, the objections would prove nearly so strong as the Hon'ble Sir Charles Paul and the Hon'ble Mr. Allen represent, and I am not at all prepared to abandon the principle of my amendment; but still it is desirable, in the light of this day's discussion, to

examine its wording carefully and see if it can be safeguarded.

"The Hou'ble Mr. Moore authorises me to say that he does not press for compensation for prospective tolls, and, it so, all those who accept the principle are substantially in accord. I therefore suggest that, instead of coming to any immediate vote, which will leave no option except to leave the section unaltered, or to accept the amendment verbatim as it stands, section 96 may be referred back to the Select Committee for further consideration."

His Honour the President said:—"Before putting either question to the vote, I think it is worth while just to sum up to a certain extent what seems to me to be the various views now before the Council. In the first place, the hon'ble member in charge of the Bill, who is also a member of the Port Commission, considers that section 96, as it stands, is not sufficient without some provision, for giving compensation on the same lines as that which is urged vehemently by the Chamber of Commerce and by the hon'ble member who, in this Council, represents their interests. Consequently, you have the member in charge of the Bill and the Port Commissioners' interests and the interests of the Chamber of Commerce, all at one upon this point.

"Then, when you come to debate the question, it seems to me at least—and I should have said so, until the Hon'ble the Advocate-General made his last remark—that there was a general concensus of opinion that something in the shape of compensation was necessary, or at all events was equitable. It might be, as I understood the Hon'ble the Advocate General to say, merely paying compensation for the actual value of material wasted, or for the actual value of the jetty, or of the erection. There are others who think there are some larger claims; but I am bound to say that the concurrence of legal opinion is so strong

against the clause as proposed by my hon'ble friend to the left that, if that clause had to be put before the Council, I should have found myself obliged to

vote against it.

"But there seems to me to be a concensus of opinion that something in the nature of compensation ought to be given, and it is also agreed that it should exclude any compensation for the future payment of fees which owners have not had to pay in the past, owing to the fact that they have been able to use their own jetties. Well, that brings us to a certain point in coming to an understanding: it clears the ground to some extent

"The Hon'ble Dr. Rash Behary Ghose has been good enough to offer a

"The Hon'ble Dr. Rash Behary Ghose has been good enough to offer a suggestion which he thinks might meet the case; but that, unfortunately, has come at the end of the debate, and it does not seem to me that there is any opportunity now of taking the opinion of the Council on a question of that kind,

without a little further consideration.

"I do not quite like the idea of referring a single section back to the Select Committee; because, if you refer this section back to the Select Committee, I do not see how you can exclude section 94, and that opens up rat er a large field. I think I should prefer myself, instead of referring it back to the Select Committee, to adjourn the Council for one week for the consideration of the clause as suggested by the Hon'ble Dr. Rush Behary Ghose. That could be brought forward next week, or, possibly, some adaptation of it might be likely to meet the wishes of both parties. But if there is no better method—if I find nothing like an agreement is possible—I will adopt the view of the hon'ble the mover of the Bill, namely, to refer the Bill back to the Select Committee. It seems clear that you cannot pass the Bill to-day with this difference of opinion about it."

The further consideration of the section was postponed till the next sitting of the Council.

The Council adjourned to Saturday, the 1st March, 1890.

C. H. REILY,

CALCUTTA;

The 27th February, 1890.

Assistant Secretary to the Govt. of Bengul, Legislative Department.

DISTRICT ROAD FUND.

GOVERNMENT OF BENGAL-PUBLIC WORKS DEPARTMENT.

No. 884R.C.

Calcutta, the 26th February 1890.

READ-

Letter from the Accountant-General, Bengal, No. 599L.F., dated the 6th February 1890, submitting an abstract of the receipts and expenditure of the neveral District Road Committees in Bungal for the quarter ending 30th September 1889.

RECOLUTION.—The Lieutenant-Governor directs that the accounts of the receipts and expenditure of the several District Road Committees for the second quarter of the year 1889-90 be published in the Calcutta Gazette, and circulated to the officers concerned.

ORDER.—Ordered that a copy of this Resolution, together with a copy of the abstract of receipts and expenditure, be published in the Supplement to the

Culcutta Gasette.

Ordered also that a copy of this Resolution, and of the abstract referred to, be forwarded to the Commissioners of the Rajshahye, Bhagulpore, Chittagong, and Chota Naguore Divisions; to the Superintending Engineers of the Eastern and Western Circles; and to the Financial Department of this Government, for information.

By order of the Lieutenant-Governor of Bengal,

W. B. BESTIC,

Under-Secy. to the Govt. of Bengal, P. W. Dept.

DISTRIC

Statement of Receipts and Expenditure of the several District Roa

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FORT WILLIAM,

The 23rd January 1890.

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E. T. ATKINSON,

Accountant-Genera', Bengai.

RESOLUTION ON THE REPORT ON THE ADMINISTRATION OF THE OPIUM DEPARTMENT DURING THE YEAR 1888-89.

REVENUE DEPARTMENT-MIS. REVENUE. Calcutta, the 2 th February, 1890.

RESOLUTION.

READ-

Report on the alministration of the Opium Department during the year 1888-89.

The Board's annual account of the administration of the Opium Department formerly included little beyond observations on the several reports submitted by the two Opium Agents. In 1877-78 it took a more comprehensive form, the results of the operations generally being brought together; and this year a further inprovement has been effected by combining also the maps by which the reports are accompanied. In order to render the review complete, it remains only to add an account of the Board's own action during the year in the direction of inspection or control, and of the facts specially within their knowledge, such as the result of sales and the condition of stocks. This information should be given in future, unless some special objection can be indicated to so doing. The Government of India has already directed that the future reports shall

include a review of expenditure.

2. Owing to the bumper crops of the years immediately preceding, and the consequent accumulation of a large stock, it was necessary to issue orders for the restriction of cultivation during the year 1888-89, so as to yield a comparatively small outturn. The character of the season itself contributed to produce the desired result. In both Agencies it opened well, and strict compliance with the orders of Government as to limiting production may at first have appeared a somewhat difficult task. But the heavy showers and the hailstorms of February swamped the tender plants, while damp and cloudy weather materially checked their growth, and the high temperature and strong winds which prevailed most inopportunely in the early part of the month of March, inunediately after the collection of the juice had commenced, scorched and very injuriously affected the secreting powers of the capsules. In consequence, there was a serious falling off in the average produce per bigha, amounting in the case of Behar to as much as 2 seers 3 chittacks, and in that of Benares to 1 seer 13 chittacks. At the same time the settlements were carefully restricted, the action taken with this object by the Benares Agent in particular being systematic and well-consiered. The area engaged for in the two Agencies was 139,641 bighas short of that of the preceding year, and the eventual result of this curtailment, taken with the diminished yield per acre, was the manufacture of only 38,305 chests of opium for export by sea, as against 69,500 chests during 1887-88. There was an increase in the cost per chest, but this was to be expected from a short outturn, which necessarily leads to a higher average. Several advantages accruing to the change in policy involved in the issue of orders limiting production are apparent, and not the least is the opportunity it has afforded for redistributing the establishments employed in abandoned tracts, and so strengthening in other and more profitable quarters a staff which was sanctioned years ago, and has had to bear the strain caused by a hitherto steady increase in the extent of operations The reduction has also rendered possible other improvements, and it is observed with satisfaction that an attempt has been made in the Benares Agency to render more thorough and effective the supervision of cultivation by requiring that each license shall contain the khasra number of the land to which it relates; while in Behar the system of granting a separate license to each cultivator and taking from him a separate receipt has been introduced successfully, and is said to maintain the influence of the khattadar without sacrificing the individual responsibility of the ryot. Another probable result of the exercise of discrimination in the selection both of land and of cultivators, is a distinct advance in the quality of the drug. At Ghaziporo the opium produced was unusually free from pussewah and other impurities, and of exceptionally high consistence; so much so that, for the first time on record, the

season's deliveries were so high that none could be manufactured at the Agency standard of 70 per cent.; while the quality and consistence in the case of Behar are declared to have been too high, and to have necessitated an inconvenient increase in the caking consistence of over 300,000 cakes.

3. The evidence adduced in this year's report of the popularity of the system under which opium is cultivated is both striking and valuable. Mr. Tytler, though he took special measures to prevent land being sown in excess of engagements, had to measure and admit 1,500 bighas more than he had given advances for. Mr. Rivett-Carnac, in his able report, observes in regard to

the Benares Agency-

"As settlements progressed, numerous appeals came in from all sides of the Agency against the policy of reduction that was being carried out: men found their way from distant parts of the provinces to Chazipur and submitted their petitions in person to the Agent, and it was evident that the cultivation had taken a strong hold on the people, as even small reductions were strongly objected to. It must here be remarked that the poppy cultivation seems at the present time to be most popular in Oudh, though it is no exaggeration to describe it as such, with rare exceptions, all over the North-West Provinces. From the Agent's orders petitions were submitted to the Board, and then on to Government, whilst some cultivators went even so far as to petition Her Majesty the Queen-Empress against the reduction of cultivation in the districts."

4. In the Benares Agency only 5,349 bighas were unirrigated out of a total cultivation of 329,918; and in Behar, notwithstanding the feeling against the Sone canal water, the existence of which is still noticed, there was a considerable advance in this respect, and 325,130 out of 405,866 bighas were under irrigation last season. The sums advanced in the latter Agency during the year for the construction and repair of wells were largely in excess of those of 1887-88, but in Benares there was a falling off to the extent of Rs. 9,319-15-7. Mr. Rivett-Carnac has explained that this was another effect of the concentration and confinement of the cultivation to tracts where the poppy has always flourished, and where there is in consequence less need for help from the Department in any form.

5. Owing to the poor outturn and the extensive failures of the year, the outstanding balances were heavy and their incidence almost universal. The considerate policy inculcated by Government in connection with the recovery of these was duly observed, but, nevertheless, the realizations in Behar were complete, except in the solitary district of Monghyr, with reference to which a special enquiry is clearly called for, as it did not fall within the area affected during the recent distress. In the Benares Agency it is sufficiently satisfactory in all the circumstances that out of a balance of Rs. 11,65,493-14-3 the

amount that now remains unadjusted is Rs. 4,945-7-6 only.

6. As regards breaches of the opium laws, there was an insignificant increase in the number of cases instituted, and the percentage of convictions was unusually high for both Agencies. The rule requiring Opium Officers to be consulted prior to the institution of sach prosecutions is again favourably reported upon. The rewards disbursed to informers and apprehenders amounted in Bengal to Rs. 12,978-12-6, and in the North-Western Provinces and Oudh to Rs. 5,302-9-1, as against Rs. 10,607-4-7 and Rs. 5,243-7-1 respectively paid during 1887-88. No heavy smuggling cases were reported, but a few comparatively important seizures were made. The Benares Agent considers that there is good reason to suspect that an organization exists for the smuggling of opium on a large scale into the Punjab, either from Nepal or from British territories, and he is in communication with the Financial Commissioner of that province on the subject. The Behar Agent, on the other hand, inclines to believe that the traffic with Nepal is exaggerated, and he remarks that nearly every large lot of illicit opium detected is said to have come from that quarter, an assertion easily made, not readily disproved, and too eagerly accepted by Opium officials, who naturally are unwilling to allow that the contraband article in any quantity can be collected from the cultivators licensed and supervised by them. The subject is one which requires special attention. As to the existence of extensive smuggling from Nepal, there can be no doubt, many uncleared cases having been actually detected, one of which occurred this year in the Benares Agency. But it may very well be that, as suspected by Mr. Kemble, the results of illicit transactions by the opium cultivators themselves are often attributed to foreign

7. The thanks of the Lieutenant-Governor are due to the Board and both Agents for their careful supervision of the Department during the period under review. The Lieutenant-Governor also notices with pleasure the favourable mention made by the Board of the services of the following officers.

Sub-Deputy Upium Agents.

Messrs. W. Masters, R. Drake, A. G. Tytler, W. D. Ridsdule, A. F. Mackenzie, C. Paterson and A. C. Bryson.

Assistant Sub-Deputy Opium Agents.

Messrs. J. E. Hand, G. M. Gregory, H. Blair, A. W. Osborne, W. T. Ryves, C. A. C. Gennoe, G. Nicholson, A. B. Kennedy, G. Levett Yeats, H. D'Oyly, and Baboo Jugadish Chandra Ray.

By order of the Lieutenaut-Governor of Bengal,

P. NOLAN,

Secretary to the Government of Bengul.

EXCISE ADMINISTRATION.

RESOLUTION.

ORDERED that the following selection from papers relating to Excise Administration be published for general information in the Calcutta Gazette.

By order of the Lieutenant-Governor of Bengal,

H. J. S. COTTON,

Offg Secy. to the Govt. of Bengal.

No. 55, dated 19th February 1889. From—The Government of Iudia, To—The Secretary of State for India.

In our Despatch No. 213, dated 11th August 1888, we undertook to furnish Your Lordship with information regarding the nature of the outstill systems as administered in the several Provinces of India and the extent to which they are in operation in each case. This information was called for from Local Governments, and has now been received. We propose in the following paragraphs to summarize its substance, supplementing it where necessary from the Excise administration reports.

2. In the Madras Presidency there are certain scattered tracts in which the distillation of spirit from toddy is a process both simple and inexpensive. Illicit distillation in these tracts can only be suppressed either by the employment of a very large preventive service or by the establishment of a system of outstills. To the first of these measures there are obvious objections, and, under the conditions that exist, it could not be made effective. The second has therefore been adopted, but precautions are taken to prevent excess in production and consumption. The strength of the liquor issued is prescribed; the minimum retail price of it is fixed; while the stills and places of sale are as few as the conditions of the case permit. The system, so guarded, is in force over a gross area of 17,324 square miles, or less than one-eighth part of the whole Presidence.

3. Although the area under the outstill system is small in Madras, it is even smaller in Bombay. Central distilleries supply the whole Presidency, with the exception of three isolated tracts covering a gross area of about 7,500 square miles. In these a limited and guarded system of outstills is maintained, partly on account of the rugged nature of the country and the migratory habits of a scattered population, partly on account of the facilities for illegal domestic distillation from toddy and mowha flowers, and partly because of the ease with which cheap liquor can be smuggled in from neighbouring Native States. British and Native territory is much interlaced in this Province, and from this cause serious difficulties were formerly experienced in excise administration. To a great extent these difficulties have now been overcome by arrangements under which the excise administration of the States concerned is controlled by the Bombay Government. These arrangements have made it possible to maintain the central distillery system in what is practically universal use. Even in Sind, which up to 1887 was managed on a system of farming, the central distillery plan has now been adopted throughout.

4. In the Punjab, which adjoins Sind, there is practically no outstill system at all. Outstills are allowed in two tabsils of the mountainous district of Kangra; but their capacity is regulated, and in 1987-88 their whole outturn was less than 3,000 gallons, which is equivalent to a consumption of one bottle of proof spirit per head in fourteen years in the first tabsil, and in twenty-nine

years in the second. In all other parts of the Province the central distillery

system is in force.

b. In Lower Burma the consumption of spirit made after Native methods is very small, and only yielded a revenue of R1,16,483 in 1887-88. This small consumption is distributed over a very large area; 49 stills, scattered over districts so distant as Arakan, Pegu, and Tennasserim, participate in the production. The difficulties of transport are so great and the physical features of the country so unfavourable to the maintenance of a direct supervision over manufacture that it does not seem probable that production can be successfully concentrated. The District Officers have unanimously reported that it cannot, though it will be observed that the Financial Commissioner is disposed to recommend that the experiment should be tried. The outstill licenses, which convey the right to manufacture and sell country spirits, are sold by auction annually. The District Officer fixes the number of days a week, or a mouth, on which the still may be worked. The spirit is made from either cane or

toddy sugar.

6. In the North-Western Provinces and Oudh a considerable area, namely. 36,824 square miles, with a population of nine millions out of a total area of 106,111 square miles and a population of forty-four millions for the Province, is administered under the farming or outstill system. "Farming" is merely an expanded outstill system. In the tracts where it has been introduced, the licensee secures the right of making and selling liquor within the limits of the "farmed" area, including control over a large number of outstills and a monopoly of the liquor traffic. Under both systems the Government prescribes the number of stills and shops and has laid down rules which require the limitation of the capacity of the stills.* It seems, however, that this last condition has not been enforced. As we have not yet received the report of the Local Government, we are not aware of what view they take of the omission, or of the question whether the outstill area might not be further restricted and the conditions of the licenses made more severe. It appears from the letter from the Board of Revenue, forwarded by that Government, that reform in this direction is likely to be undertaken, and if we do not receive satisfactory explanations we shall take care that the matter is not lost sight of. The revenue derived from the outstill system in 1887-88 is stated at about R6,00,000 or less than onesixth of the total revenue from excise on country spirits in these Provinces.

7. In the Provinces referred to in the preceding paragraphs, resort has been had to the outstill system either to only a comparatively small extent, or under exceptional circumstances. It is, however, the prevailing system in Bengal, the Central Provinces, Assam, and the Hyderabad Assigned Districts. In all these Provinces the number of shops is regulated by the Government, and in Bengal, the Central Provinces and part of Assam, further restrictions, to which we shall presently refer, are imposed with a view to limit production.

8. In Bengal the outstill license permits the manufacture and sale of country spirit, the produce of a single still, at a fixed place. No separate duty is charged, but an upset fee is fixed which is calculated on the approximately ascertained local demand or consumption of the shop, multiplied by half the rate of duty fixed for country spirit for the district. The license is put up to auction and sold to the highest bidder above the upset fee. The size and capacity of the still, and the number and capacity of vats in which the yeast for distillation is prepared, are regulated by the local demand on which the upset fee has been calculated. No outstill is allowed within a certain distance outside the area appropriated to a central distillery. In districts where the dual system, distillery and outstill, is in force, a minimum retail price per bottle of liquor, both for distillery and outstill shops, has been fixed. Precautions are taken to prevent as much as possible the smuggling of outstill liquor into distillery areas. The facilities for this smuggling are so great and various, and the means of detection so small, that the only hope of effectually stopping it is by forcing the price of outstill liquor, at all events in the neighbourhood of distilleries, to the level of that of distillery liquor. Measures to secure this are being gradually introduced, the cost of production in outstills has been increased by strictly limiting the capacities of the stills, and by insisting on the payment of license fees proportioned to their possible outturn as ascertained on the most approved methods. The outstill revenue was R31,91,334 out of a total revenue from country spirits in 1887-88 of R52,05,122, or 61 per cent. There were 3,585 out-

still shops out of a total number of 4,105 retail places of sale.

9. The consumption of the greater portion of the Central Provinces is supplied from contract stills or outstills. Contract stills are built and maintained by Government, and can only be worked at places where daily supervision by Government officials or by the Police can be secured. Control is secured by taking a daily fee for each still in use (roughly proportioned to the number of sers of mowha with which the still can be charged) and by seeing that only those boilers are used in respect of which the day's fee has been paid. The taxation of production at these stills is thus completely regulated, and the system does not differ in principle from that of centralised manufacture. They are said to be more easy and less expensive to manage than central distilleries. At outstills, there are no restrictions upon the manufacture other than those imposed by the limitation of the number of licensed shops to be supplied, and of the size of the vessel used in distillation. Outstills supply the demand of rural tracts and are erected by the distillers at their own expense on sanctioned nites, and receive only occasional inspection. In 1887-88 there were 118 contract stills and 1,683 outstills supplying an area of 44,000 square miles, and the outstill revenue was R3,96,375 out of a total revenue from taxation of country spirit of R13,99,631, or 28 per cent. The physical nature of the outlying districts of the Central Provinces and the great length of the frontier which marches with Native territory render the extensive adoption of the outstill system inevitable.

10. In Assam also, the control is less severe than in Bengal and the maintenance of the system as administered is only justifiable as a consequence of the physical character of the country, the great facilities for illicit production, the difficulties of transport, the size of the districts, and their sparse population. The sites of the shops are settled by the District Officer subject to the approval of the Commissioner, and the right of preparing and selling country spirits at them is sold annually by auction. One still is allowed to each shop; but where a purchaser is the licensee of more than one shop, he may work in one shop as many stills as he has shops. The capacity of the stills, and the hours within which they may be worked, are defined in the license. We propose to invite the Chief Commissioner's attention to the desirability of attempting to introduce

some of the further safeguards insisted on in Bengal and Madras.

11. In the Hyderabad Assigned Districts the farming system is in force. It is described in the Administration Report in the following terms:—

"The system of administration in the Hyderabad Assigned Districts of the excise revenue is what is called the farming system, whereby the monopoly of vend within a given area is put up to auction and is disposed of to the highest bidder. The number of retail shops for country spirits is limited to what is considered the requirements of the people, and the contractors are on no account allowed, without the special sanction of the Deputy Commissioner, to increase the number. The object of this restriction is to obtain the highest amount of revenue distributed among the smallest number of places of vend, or, in other words, to heighten the price of liquor, as far as possible, without increasing facilities for obtaining it. The population per retail liquor-shop is 1,109. The only spirit manufactured in Berar is that distilled from mowha, and mowba trees abound in the province."

12. Your Lordship will observe that, except in Bengal and Berar, the conditions which the several Local Governments consider necessary to justify the introduction of the outstill system into any locality are, sparseness of population, difficulty of transport, want of proper means of communication, and physical features unfavourable to the working of a centralised system. There is no room for doubt that in localities where these conditions exist the outstill system is the most suitable yet devised for taxing consumption. The question whether it can be satisfactorily worked under the conditions which prevail in a large portion of Bengal, is one which is at present engaging the anxious attention of the Local Government, and Your Lordship will find, in the enclosures to our Despatch No. 22, dated 22nd January, valuable information regarding excise administration in that Province. The Bengal Excise Commission of 1884 advised that the regulation of outstills was quite possible under safeguards intelligently devised and energetically applied. It is obvious that there is not necessarily any difference of principle between the system which taxes consumption by a duty on the quantity of liquor passed out of a guarded enclosure and that

which adjusts the duty to the producing capacity of a still without placing the latter under constant and direct supervision. If it is possible in practice either to enforce a limitation of production and impose duty accordingly, or to adjust the duty to the full producing capacity of the still, there can be no advantage in superseding outstills by central distilleries. Under such conditions every gallon of spirit would pay full duty, liquor could not be unduly cheapened at the cost of the revenue, and obviously the cause of temperance could not suffer. If again the restrictions on consumption be alone regarded, the device of fixing a minimum price on the sale of all outstill-made liquor will be effective if it can be enforced. There was some heattation at first in Bengal in accepting this device as a possible solution. The experiment was, however, made in those districts where the dual system of central distilleries and outstill exists, mainly with the view of checking competition between distillery and outstill liquor. So far as information has been received, there is reason to be satisfied with the result, and it is understood that the Bengal Government contemplate fixing minimum prices in all districts. The same condition is enforced by the Government of Bombay in the case of the outstills in the Batnagiri and North Kanara Districts. The Excise system in Bengal must, however, be still considered as in an experimental stage, and we have, as reported in our Despatch No. 23 of the 22nd January, requested the opinion of the Lieutenant-Governor on the question whether, instead of being given a more extended trial, the outsill system should be generally abolished.

13. In considering the propriety of superseding the outstill system in Bengal, it is necessary to recollect that the only immediate alternative is the sudder distillery of Northern India, which is simply a guarded enclosure containing a number of native stills. There are, however, difficulties in the way of the general introduction of sudder distilleries unless extensive changes in the ordinary processes of manufacture are introduced. The spirit made in the native method is far from pure and, when manufactured from the flower of the mowha tree (bassia latifolia), which is the chief material used in Bengal, the Central Provinces, and the North Western Provinces and Oudh, will not bear transport, and rapidly deteriorates. Such spirit must, therefore, be manufactured near the place where it is consumed, and this necessitates the maintenance of a large number of distilleries in districts where the sudder distillery system is in force; for instance, in the Central Provinces, it is calculated that one of these distilleries supplies only the country within ten or twelve miles. It should, however, be borne in mind that in Madras and Bombay the introduction of European apparatus and methods has resulted in the production of country spirit of a class which will endure transport over long distances, and which does not deteriorate when kept. Moreover, the proventive establishments in those Provinces are efficient, and it has consequently been found possible to concentrate the manufacture, with the result that the number of central distilleries is in striking contrast with the number in Northern India. Thus in Bengal, the number of central distilleries in 1869 was 257, and in 1878, the year preceding the revival of the outstill system, 211; in the Punjab there are at present 65; while in Madras, in 1887-88, two-thirds of the whole Province was supplied from only 19. The difficulties attending the establishment of an effective preventive agency are perhaps not likely to be as successfully overcome in Bengal as they appear to have been in the two Southern Presidencies. But it should certainly be kept in view that the only satisfactory solution of the difficulties attending the central distillery system, if the decision to suppress outstills is taken, seems to lie in the adoption of either the Madras or Bombay method, and in the introduction of a radical change into the customary processes of local manufacture. The Bengal Excise Commission, however, advised in 1884 against the adoption of European methods of production in Bengal, and their views receive some confirmation from the fact that one of the two distilleries established on this footing has been closed, and that the trade is languishing. But looking to the satisfactory results achieved elsewhere, it seems to us that the question is deserving of further considerstion, which it will doubtless receive at the hands of the Bengal Government in connection with the report submitted by Mr. Buckland on the Bombay and Madras systems, a copy of which was forwarded to Your Lorship with our Despatch No. 22, dated 22nd January last.

14. The table in the margin, which shows the fluctuation of excise revenue

		C	OURTET SPEED	B _q	
THAR.		Budder die- Hiltery Tevonue-	Ostaill revenue.	Total revenue,	Rumanus,
1		8	3	4	8
		R	R	R	
1860-61		8,78,080	9,74,842	18 52,943	
1861-62		8,12,6:4	10,57,925	18,70,549	
1862-68	0	7,34,188	10,24,045	17,58,233	
1803-64		8,26, U8	11,29,439	10,55,547	Orders for suppression of
1864-65		14,67,044	3,05,830	17,78.274	outstills "made per-
1865-66		12,46,286	1,92,220	14,38,500	
1866-67		7,85,785	35,865	8,21,650	
867-68		12,37,657	27,458	12,65,010	
868-69		16,11,2102	84,055	16,45,347	
1869-70		16,25,267	85,647	15,63,904	
1870-71		18,07,450	39,878	18,47,828	Outstill eyetem sgain in
871-72		18,11,273	1,28,882	19,85.105	troduced.
1872-73		19,90,279	2,34,980	21,21,268	
873-74	В	20,02,878	2,42,365	23,35,248	
1874-75	4	20,36,335	1,91,727	22,28,062	
1875-76		22,41,591	2,68,473	25,]U.(N)4	
LB76-77		23,30,773	2,94,626	26,25,399	
1877-78		25,41,621	3,49,489	28,90 460	
1878-79		16 97,085	12,73,826	29,70,911	Board of Revenue with
1879-80		13,75,002	18,13,759	31.85.851	draw the orders limiting the capacity of outstills
1840-81		11,81,717	30,39,582	42,21,299	the capacity of outstitle
1881-82		12,60,144	88,60,051	46,20,195	,
1883.88		18,48,214	34,78,084	49,26,298	
1883-84		13,74,765	88,47,976	62,22,731	
1884-85		13,88,620	84,66,691	48,55,211	Exclus Commission re
1885-86		15,33,773	29.76,455	45,10,228	commend control distr
1886-87		18,29,229	29,62,020	47,91,249	leries for urban tracts and more severe restrict flone over outstille.

The entries against the year 1866-67 represent figures for 11 months from May to 31st March, as the year was then changed from May to April. The year was also a familie year.

in Bengal under the outstill and distillery systems, is very significant of the effects of the hasty and ill-considered introduction of the centralised system, regardless of local conditions. orders for the general suppression of outstills in Bengal were made peremptory in 1863. The immediate result was a large loss of revenue, which did not regain even the standard of 1863-64 until 1871-72, and then only after it had been again found necessary to resort to outstills. habits of the people did not undergo any violent change during this period, and the only possible inference from the great fluctuations in the revenue is that the adoption of the centralised system, under conditions to which it was unsuited, led both to a great loss of public income and to a great increase in illicit drinking. Other prov-

inces have undergone the same experences. A striking illustration of the impossibility of successfully replacing the outstill system by that of central distilleries, under all conditions and in all localities, is found in a passage from the report of the Commissioner of Excise in the North-Western Provinces and Oudh for the year 1882-83, which is as follows:—

The figures given in the report for 1871-72 are as startling as any to be found in recent years, and show clearly enough that in the Bundlekhand districts the distillery system utterly broke down:—

		1870			1871		
		Distillery	syst	em.	Farming	syst	iem.
		R	a.	p.	R	a.	p.
Tirohan and Badausa Tabsils of Banda		173	8	0	6,617	8	0
District of Hamirpur	a	2,298	8	0	20,400	0	0

It is inconceivable that the receipts for 1870-71 in any decree indicated the consumption of spirits in the two districts, or that those for 1871-72 proved a rapid change in the habits of the people. The couclusion seems to be obvious, either that the distillery system was wholly unsuited to the country, or that it was badly worked. Both objections were probably true. The distillery system was entirely unsuited to the southern portions of both districts, unless a strong and efficient preventive force had been maintained; and in the northern portions, in which there were only the difficulties that are experienced elsewhere, it seems incredible that in Hamirpur much attention can have been paid to this branch of the administration. Another tract with which also I happen to have personal acquaintance furnishes similar statisties. In the Robertsganj Tahsil of the Mirzapur district the revenue from country liquor fell from R3,421 to R311, and rose again on the re-introduction of the farming system in 1868-69 to R2,000, and subsequently to a steady average for many years of over R6,000—a sum which the sub-division of the farm and the consequently increased competition have trebled. Here, too, there can be no reasonable doubt that the introduction of the distillery system did not stop drinking, but that in a country for which it was entirely unsuited it gave a fresh impetus to the use of illicit liquor.

The failure of the distillery system was no doubt partly due to inefficient administration, but, even allowing for this, the results stated in this quotation are sufficiently remarkable.

15. Whatever the eventual decision may be on the question whether the outstill system can be successfully applied to whole Provinces, we submit to

Your Lordship's judgment that the information now collected shows that there is no reason for supposing that the Local Governments have shown any indisposition to recognise the necessity of doing everything that is possible to keep consumption under control, even in those tracts where the maintenance of the outstill system has been found to be inevitable, or where it is under trial. We venture to think that this system, as generally administered, does not merit the description given in paragraph 4 of Your Lordship's Despatch No. 28 (Revenue), dated 19th April 1888, in which it is referred to as a system under which "it is in the power of the distiller to make as much spirit and to push the sale thereof by cheapening liquor as far as he possibly can. In every case, even under the farming system of the North-Western Provinces and Berar, that power is subject to limitations of some kind-in all cases the number of places of sale is fixed by the Government, and generally either the number or capacity of the stills is limited, or a minimum selling price is enforced. It should in particular be remembered that the outstill system, except where it is undergoing a period of probation, is as a rule only admitted into localities where experience shows that any other system of taxing consumption must fail; that restrictions are generally enforced, and that these restrictions, so far as they go, are real and effective. In the statement attached to this Despatch Your Lordship will find statistics showing the extent of the operation of the outstill system in each

16. We take this opportunity of making some remarks on the systems of excise administration in operation in Madras and Bombay, and of bringing to Your Lordship's notice the more important of the changes and reforms introduced by Local Governments since our Despatch No. 166, dated 25th June

1887, was written.

17. In Madras, the Local Government may fairly claim to have successfully solved the problem of controlling the consumption of country spirits. The system now in force was introduced at the recommendation of a Committee appointed by the Local Government in 1884. At the suggestion of that Committee the rights of manufacture and of retail sale have been separated; the areas, the right of retail sale in which is sold by auction, have been reduced with the object of eventually excluding the middleman and settling each shop separately; and a system has been introduced, under which the retail vendor may purchase his supply of spirits from any distillery, instead of one under which

nnė.	Beven	0 30°	Communication of the contract	r					
Ē.	34								
.776	28.09.	241 5	12,94.					4	1883-84
		678	11.85.					5	1884-85
262	34.75		10.14.						1885-86
	38.02.		10.84						1886-87
7 54	\$1,00.	190 1	12,70,		Þ			,	1001-00
, ,	41,63. los facts	transition	12,70,	Was	year	lle .	6.0		• (Omit

each shop was affiliated to a particular distillery. This system was adopted from 1st October 1884, and statistics comparing the consumption of, and revenue from, country spirits in the districts into which it was then introduced are given in the margin. Your Lordship will observe that, with practically no increase of consumption, there has been a very great increase

in revenue. These figures indicate how fallacious is the argument, sometimes put forward, that because there has been a large increase of the Excise Revenue in recent years, there must have been a corresponding increase in consumption. Since the introduction of the new system there has been a general rise in the retail price of country spirits of from 8 annas to a rupee a gallon of spirit of 30° under proof. The comparatively large consumption in the year 1887-88 is attributed to the prosperity of the agricultural classes, but in view of it the Local Government has enhanced the fixed duty for the future. The system described above is now in force in the greater part of the Presidency, and, even in those localities where outstills are permitted, an attempt is being made to levy, by means of a tree tax, a quantitative tax on the weak toddy spirit produced, the aim of the Government being to extend to the whole Presidency a system under which a quantitative tax is levied on all liquor consumed. The efficiency of the preventive establishments, which enable this system to be successfully worked, has been already noticed.

18. The prevailing system in Bombay is that known as the "still-head duty, central distillery, and guaranteed minimum revenue system." Under this system, the right of manufacture and sale within a district is farmed, but the manufacture is concentrated in one distillery over which strict supervision

is exercised. Every gallon passed out of it is taxed, and the temptation to the farmer to procure illicitly produced liquor and sell it cheaply is remote, as he is required to guarantee a minimum revenue. Statistics of consumption are only available for areas under the central distillery system, which has been gradually extended till it now practically comprises the entire Province. This gradual extension of the area renders it impossible to compare the consumption of the present with that of the past, or the consumption of one past year with that of another. As one system is now in practically universal use, it will be possible in future years to make this comparison; if made now it would he misleading. For the present, it will suffice to invite Your Lordship's attention to the very great increase in the rates of duty set out in Appendix No. II of Mr. Buckland's report, and to the decrease in the volume of the taxed consumption in the city of Bombay, as typical of the influences which have been in operation concurrently with the great increase of revenue. The consumption was 907,000 gallons in 1872-73, 630,000 in 1881-82, and 621,000 in 1886-87. The duty was, during this period, raised from R1 for proof spirit to H2-12 for 25° under proof spirit, and the revenue increased from R7,20,000 to R20,17,476. The chief difficulty which it has been necessary to overcome in Bombay was due to the intermixture of British and Native territory. solution has, as stated above, been found in the acquisition by the Local Government of the Excise revenues of most of the Native States concerned, which has made it possible to restrict the outstill area to very narrow limits.

From the 1st January 1888, the Local Government has introduced, experimentally, into the districts of Thana and Kolaba a system, by which the purchaser of the right of retail vend pays no license fee and guarantees no revenue, but contracts to pay, as license fee, a percentage on the still-head duty on the spirits he requires, which he must procure from one of the public distilleries. We have as yet received no report from the Bombay Government regarding the measure of success that has attended this experiment, but it seems open to the objection that it leaves the farmer subject to the temptation to procure and

sell illicitly-produced liquor.

19. In the preceding paragraph and in paragraph 5 of our Despatch No. 166, dated 25th June 1887, we have explained the difficulties resulting from the interlacing of Native and British territory. Indications have appeared in the public press of a disposition to assert that the acquisition of the excise rights of Native States in certain cases has been prejudicial to the cause of temperance. To enable Your Lordship to estimate the justice of this accusation, we invite

Internal, June 1885, Nos. 189-195.

July 1886, " 883-342. attention to the Proceedings of our Foreign Department indicated in the margin, which show that the outstill system which prevailed in Baroda and other States up to 1887 was accompanied by great abuses and the smuggling of cheap liquor into the adjacent British districts. The Government of India has also of late been freely charged with encouraging consumption for the sake of the revenue. It could not be expected that the excise administration of so vast an extent of territory should be incapable of improvement, and we do not assert that it is: mistakes have no doubt occasionally been made in particular tracts or by individual officers, but the accusation that the Government of India, or any Local Government, has knowingly stimulated the consumption of liquor in order to increase the revenue is altogether without foundation. The great increase in the revenue in recent years is mainly due to better administration and growing prosperity, and if there have been other causes at work, they are not such that the Government can be held responsible for them. The increase of revenue has been greatest where the control has been strictest.

20. Except the introduction of a regulated system into Upper Burma in 1888, the details of which were fully set out in our Despatch No. 159, dated the 16th June 1888, no further changes of importance have been introduced into the excise system of any Province since our Despatch of 25th June 1887 was written. More attention is being paid year by year to this department of the administration, and though the difficulties to be overcome are great and diverse in their nature, and though in some cases there may be room for difference of opinion regarding the suitability of the systems under trial, there is no reason to fear that the fundamental principles on which a revenue should be raised from the taxation of drink are likely to be lost sight of either by

Local Governments or ourselves.

Statement showing the Revenue derived from the Ontstill system, and the area within which it is in force.

	Ontatiil revenue.	Tetal excise rere- nue from country spirits.	Percentage of out-	(Patatill shope.	l'estal number of sheeps, country spirits,	Percentage of out- etili shope to total	Ontetill area—equare	Total area—square	Percentage of ont- etill area to total	Pepulation ontakill	Total population,
	R	R									
Bongai Madras Bombay Punjab NW. Provinces and Oudh Contral Provinces Lewor Hurma	\$1,91,384 \$,05,905 †3,37,585 7,997 6,90,196 3,96,375 1,16,488	59,65,122 52,15,029 66,57,728 7,61,714 98,65,330 15,99,631 1,16,483	61 15 5 1 16 28 whole	3,535 6,200° 578† 15 1,612 4,190	4,105 15,330 3,884 1,136 7,294 8,954	27	17,824 7,457 2,578 26,824 43,996	156,564 139,909 124,122 106,632 196,111 84,445 67,220	10 6 2 34 58	4,676,034 1,459,178 276,868 9,072,694 5,214,550	7,198,657
Carry Assim Hyderabad	Not in 1,96,641 9,89,215	(open) 1,9%,641 9,%9,215	whole		220	whole	1.193 17.711	46,341;		173,056 2,672,673	4,881,426; 2,672,678

December 1888—Actually open 4,207. Sanctioned 10,317.
 † Approximate.

1 th must be recollected that this table deals with consumption of "country spirits" only, which term does not include rum. The Assum Government in 1887-88 reduced the number of "country spirit" shops in order to break down a combination of liquor-sellers, and substituted shops for the sale of rum. The old system has since been re-established. The Assum figures are therefore not typical ones.

No. 157, dated 25th May 1889.

From-The Government of India, To-The Secretary of State for India.

With our Despatch No. 67, dated 12th March 1889, we forwarded to Your Lordship copy of a letter from the Government of Bengal, containing its views on the questions of the maintenance of the outstill system and the introduction of a system of local option in Bengal. These questions had been raised in certain memorials which accompanied our Despatch No. 23, dated 22nd January last. In accordance with the promise made in paragraph 2 of the Despatch of 12th March last, we now forward a series of reports from all Local Governments and Administrations showing the precautions taken, and the extent to which deference is paid to the wishes of the residents of the neighbourhood, before a license is granted to a shop for the sale of liquor.

- 2. In the memorials forwarded with our Despatch No. 23, dated 22nd January last, two separate and distinct questions were raised, that of the general abolition of the outstill system in Bengal and that of the introduction of a system of local option alluded to in the preceding paragraph. With the general nature of the outstill systems as administered in the several provinces of India, and the extent to which they are in force, Your Lordship has already been made acquainted by our Despatch No. 55, dated the 19th of February last, to which Your Lordship's reply No. 38 of the 28th of March has recently been received, and it is not our intention at present to enter on any further general discussion of this portion of the question. As regards Bengal, however, we stated in paragraph 12 of our Despatch that the excise system of that Province "must be still considered to be in an experimental stage," and that we had "requested the opinion of the Lieutenant-Governor on the question whether, instead of giving it a more extended trial, the outstill system should be generally abolished," and upon that opinion as recorded in the letter from the Government of Bengal which accompanied our Despatch of 12th March last, and the considerations upon which it is based, we beg to offer the following observations.
- 3. The proposal to resort to a general abolition of outstills throughout the Province is, as pointed out by Sir Steuart Bayley, not a new one. In paragraph 14 of our Despatch of the 19th February, we have already called Your Lordship's attention to the fact that since the year 1560 the excise system of Bengal had leaned at one time strongly towards the outstill system, and at another towards the entire suppression of outstills and the substitution for them of central distilleries. The table in that paragraph shows that the policy of suppressing outstills which is now under discussion was, more than a quarter

of a century ago, deliberately adopted in Bengal. An outstill system, combined from the year 1813 in certain parts of the Province with a farming system, had been established as long ago as 1793, and was maintained with but slight interruptions and modifications for about 60 years, before it was condemned as leading in its then existing form to an increasing consumption of liquor with its attendant evils. In 1859 the Government accordingly resolved to introduce the central distillery system in supersession of all others, and after four years of controversy, peremptory orders were issued in 1863 with a view to giving practical effect to this resolution. The result was that in the four years central distilleries increased in number from 96 to 264, and the outstills diminished from 6,655 to 165.

4. Though the outstill system began to recover ground in 1871, the experiment of the general establishment of central distilleries was practically allowed full scope for thirteen or fourteen years, by which time it was discovered that it had failed in realising the expectations with which it had been introduced. Its weak points were discovered to be (1) the facilities afforded for frauds by distillers in combination with the excise staff; and (2) the temptation given to illicit distillation in outlying districts, to which the transport of liquor from

Fide paragraphs 13 and 18 of our Desputch of the the central distilleries was a matter of light of February.

of communication and to the crude quality of the spirit which rapidly deteriorates and does not endure transport, and where the physical features of the country were such that unlawful production could not be suppressed. These evils gradually became so apparent, and the opposition to the system gained such strength, that the Government of Bengal, although not without much hesitation and reluctance, once more determined upon a reversion to the outstill system in all but central and populous places. The result was that in 1878-79 the number of outstills had risen to 8,911, while but 91 central distilleries were retained. These latter were further reduced by 1880-81 to 22, while out-

stills had increased to 5,657.

5. The effects of this sudden return to a system previously condemned were unsatisfactory: the price of liquor was lowered, and consumption increased. A large share of this result was doubtless due to the order of the Bengal Board of Revenue issued on the 4th January 1879 directing that the condition of the license under which the capacity of the outstills was limited should be withdrawn. The evils of increasing consumption due to cheap liquor became apparent, and in December 1883 an Excise Commission was appointed, whose report, presented at the close of 1884, was reviewed by the Bengal Government in March 1886. Stated briefly, the recommendations of the Commission were in favour of the re-establishment of the central disillery system in all towns, and the introduction into outlying districts of a regulated outstill system, under which both the minimum price of liquor was to be fixed and its production strictly limited. These recommendations have been practically accopted by the Bengal Government, and their present efforts are mainly directed to working out an efficient excise system upon the lines indicated. The practical problem, on which the fate of the outstill system will in a great measure depend, is whether, under that system, production can be effectually limited, or security obtained that no part of the liquor produced shall escape taxation. As we have explained, Sir Steuart Bayley and his advisers are engaged in dealing with this question at the present moment, and, although it has been decided that the outstill system is one that should not be generally adopted, it would, in our opinion, be premature to pronounce a final opinion on that system as applied in parts of the Province of Bengal, until time shall have been allowed to the responsible authorities to test by observation the practical effect of the reforms now being introduced.

6. The lessons taught by experience support the conclusion that no one system of excise is suitable for a Province where the conditions are so complex. While, therefore, Sir Steuart Bayley is prepared to give every encouragement to the extension of the central distillery system to all suitable localities, and has recently abolished outstills in the districts of Howrah and Hooghly, he is not prepared to view favourably any proposal for their immediate and general suppression all over the Province. He is of opinion that "the mere abolition of outstills in tracts where central distilleries cannot be introduced would obviously not tend to diminish drunkenness," and that as the whole question of

excise is now receiving an exceptional amount of attention, and every effort is being made to improve existing systems upon lines approved and adopted after the most mature and careful consideration, it would be highly impolitic and embarrassing to interrupt the course of the reforms now in progress by such a radical measure of change as that desired by the memorialists. This opinion we fully concurin; we doubt the expediency of uprooting the existing system while it is in process of reform and before it has been shown that a better system can be substituted, and we share the Lieutenant-Governor's hope that "the transition from a system of unrestricted outstills to one of rigid regulation," in those tracts to which experience has shown the outstill system to be most

suited, may be attended with satisfactory results.

7. Turning now to the second and wider question raised by the memorialists, namely, that of local option, we are led by a careful consideration of the subject in all its bearings to the conviction that, under the circumstances which new exist, no such system could be successfully administered in any part of India. Any scheme of "local option" pre-supposes the existence of a highly developed system of local or municipal institutions, to which representatives are elected by the mass of the people and in which all conflicting interests eommand their due share of attention. In the communities in which such insti-tutions are to be found, the necessary control over the actions of the representatives is secured by the right of periodical appeal to the judgment of the In India there is no representation of this character: the electoral system, so far as it has been introduced, rests upon the narrow basis of a restricted franchise and large masses of the people and those the least able to make their voices heard are without representation of any kind. No effective check could, therefore, be placed upon the capricious exercise of the power of granting or refusing licenses if it were entrusted to Municipal Committees or Local Boards.

8. "The peculiar conditions of society are," to use the words of the Lieutenant-Governor of Bengal, "such that it is altogether impossible to delegate to local hodies the power of dealing with the complex and difficult problems connected with Excise administration. In the first place, it is not allowable for members of the Muhammadan community to openly countenance or tolerate in any way the consumption of spirituous liquors. The use of spirits is forbidden by the Koran, and the representatives of this community would undoubtedly, were it in their power, uniformly declare against the grant of licenses to sell alcoholic stimulants." And again, notwithstanding that many Hindu gentlemen are entirely free from all prejudice in the matter, the general feeling amongst them is adverse to the consumption of spirits, and they would in most instances join with the Muhammadans in negativing proposals to grant On the other hand, the lower classes who habitually resort to stimulants, and who seldom use them in immoderate or injurious quantities but in many cases as an antidote to the climatic influences to which they are exposed, are entirely unrepresented upon Municipalities and District Boards, and would. were their supply of liquor removed, be undoubtedly forced to have resort to illicit distillation and consumption. We are led by these considerations to the conclusion that it is altogether chimerical to expect that the lower classes could, by the removal of liquor shops, be driven to habits of strict temperance; and that the Government would be guilty of a dereliction of duty if it were to permit the creation of the class tyranny that would inevitably result from the adoption of a system of local option.

9. We fear that the advocates of temperance in England who press for the adoption of this system of administering the liquor traffic, are not well informed regarding the peculiar structure of Asiatic society in general, and of Indian society in particular. To attain even a partial success "local option" demands a certain homogeneity of character, tastes, and moral standards in the community into which it is introduced. In India this condition does not exist; society is not so much an aggregation of individuals, as of classes, and, moreover, of classes whose habits, opinions, and views of right and wrong are widely divergent. On such elected bodies as exist there are no representatives of the great mass of the people, and if the licensing power, unaccompanied as it would be with any kind of responsibility, were entrusted to Municipal and District Boards, it seems very probable that it would be exercised without much forbearance or regard for the susceptibilities of those chiefly interested. It is idle to expect the difficult problem of the administration of the liquor traffic to be solved by the votes of representatives who are subject to these disabilities, and, in our opinion, no system of "local option" could be devised that would not, under the conditions that have to be dealt with, be doomed to failure.

10. Your Lordship is aware that even in countries where no violent differences of social habits and tastes exist, where representation is fully developed and political life most active, attempts to enforce abstinence under penalties have not been altogether successful or useful to the cause of morality; and we have little hesitation in coming to the conclusion that such attempts would be wholly unsuited to the existing conditions of this country, and that, even if representative institutions were more completely developed than they are, it would be exceedingly unwise to make India a theatre for experiments of this nature. These grave difficulties, which are not absent even in the most advanced cities of the Empire, would be especially felt in the smaller municipalities and outlying districts.

11. But while fully convinced of the impracticability and impolicy of introducing, or attempting to introduce, now or within any measurable distance of time, into this country any general system of local option, we are of opinion that no genuine expression of public opinion should be ignored in deciding whether a liquor license shall be given or not, and particularly in determining the location of a shop. To enable us to place accurately before Your Lordship the facts regarding the extent to which deference is now paid to local public opinion, we called for information from Local Governments bearing upon this aspect of the case. A brief summary of this information is now given.

12. In the district of Ajmere-Merwara, although no special rules have been drawn up upon the subject, the public in the vicinity are consulted as well as the police authorities previous to the opening of a new liquor shop; and the District Magistrate in his capacity of Excise Collector is the authority under whose permission all such shops are licensed.

13. The wishes of the residents of the neighbourhood are similarly consulted in Coorg, in which Province it is stated that, since 1886-57, 35 shops have been closed with a view to cheeking an undue disposition to drink among

the people, while only one new shop has been opened.

14. In the Hyderabad Assigned Districts the number of liquor shops is fixed for each district by the Deputy Commissioner in charge. No remonstrance regarding their location has apparently been ever received, though, "if it were, it would," we are assured, "undoubtedly meet with full consideration."

15. The Chief Commissioner of the Central Provinces reports that although, in his opinion, it is only in one or two of the larger towns in which there exists an educated community whose opinion is of any weight or consequence, nevertheless, if the residents in any locality were to petition for the closing of a shop. the local authorities would give attention to their wishes. But, it is added, that here, as in the Hyderabad Assigned Districts, no instance of such a petition can be recalled. The opening and closing of shops is left entirely to the discretion of the Deputy Commissioners, who are also the District Magistrates, and the excise authorities have no immediate voice in the matter.

16. From Burma it is reported that proper weight is always given to the expressed wishes of the neighbourhood concerning the location of liquor shops, though no rules have been issued upon the subject. The Chief Commissioner cites several instances which have come under his own personal observation of licenses refused or withdrawn in deference to the wishes of local bodies, and states that they might easily be multiplied upon a reference to the district authorities.

17. There is no separate Excise Department in Assam, the Deputy Commissioners and Magistrate having the control over matters of excise within their respective jurisdictions, under the general superintendence of the Commissioner of the Division in the Assam Valley, and the Commissioner of Excise (who is also the Inspector-General of Police) in the rest of the Province. Representations against the establishment or maintenance of shops, though rare, are on record; and the Chief Commissioner reports that they "seem always to have received the very fullest consideration." It is stated that "Agents of Tea Gardens have sometimes a word to say for or against the establishment of a shop in a particular locality." We may add that the Chief Commissioner has been requested to make a careful eaquiry into the cases referred to in the letters which accompanied Your Loraship's Despatch No. 13, dated 31st January 1889, regarding the alleged facilities for drinking afforded to, and increase of drunkenness among, to garden labourers, and the opening of butstills and shops in spite of

the protests of planters.

18. In Bengal more specific instructions have been issued for the guidance of the responsible officers in such matters. They have been instructed, in the circular quoted in paragraph 2 of the letter from the Government of Bengal, which forms one of the enclosures to this Despatch, to ascertain and to consider, though not necessarily in all cases to conform to, local opinion. Where municipalities exist, the Board of Revenue has been specifically directed to see that the Commissioners shall always be consulted; and remonstrances made by local bodies against the selection of the site for shops are never disregarded without good reason. It is further particularly ordered that, save for special cause, no liquor shops shall be opened near market places, schools, factories, and other places where they are likely to afford more than usual temptations to drink, or to offend public feeling.

19. In the North-Western Provinces, although, as in most of the preceding cases, no rules exist requiring that the opinion of local bodies should be obtained upon the licensing question, the excise regulations provide that opportunity shall be given to zemindars and neighbours of objecting to the position of shops; and any representations made by them or by local public bodies

receive attention.

20. The excise rules of the Punjab distinctly lay down that no shop shall be opened in a village the inhabitants of which object to its establishment; and as a consequence the Lieutenant-Governor reports that various instances have occurred of the refusal to grant or renew licenses on these grounds. Nor is a single instance recalled in which a shop has been opened in opposition to the wishes of the inhabitants. The District Magistrate is here also the local head of the Excise administration, and no shops are opened or closed without his knowledge and concurrence.

21. The report of the Madras Government shows that remonstrances against the establishment of liquor shops are of rare occurrence; but when received, enquiry is made, and such attention as may appear reasonable is given to them. It is stated that but few new shops are now opened in the Presidency, and the number of those licensed is being rapidly reduced. In the majority of places in which there are shops public bodies do not exist, and where they do, they can in no sense be called representative. The Magistracy

here, as elsewhere, are invested with the licensing authority.

22. Sanction to the licensing of shops in Bombay is only given after enquiry made in the districts by the Collectors, and in the island of Bombay by the Commissioner of Police. No complaints have apparently ever been received that representations made in the matter have not received the fullest attention. But it is pointed out that, as a rule, the inhabitants of that Presidency are not sufficiently interested to stir in the matter uninvited and, "if invited, would simply become the tools of wire-pullers on each side."

23. These facts, and the reports from which they are taken, will, we trust, afford Your Lordship sufficient assurance that local prejudices and feeling in the matter of the licensing of liquor shops are not lightly disregarded, and that safeguards are, as a rule, imposed against their establishment in localities where they might prove a source of annoyance to the neighbourhood, or ir such numbers that they might unduly facilitate drinking. It is to the issue of general instructions for the guidance of district officers in dealing with excise questions, rather than to any scheme of local option that we must look, under the conditions of society in India, for the improvement of the Indian system of excise. With this view we shall forward a copy of this Despatch and its enclosures to all the subordinate Governments. Looking to the difficulties that would attend any attempt to suddenly introduce uniformity of practice over such a vast area as India, we have not thought it desirable to issue specific instructions on the subject at the present moment. The facts now brought together will enable each Government to learn what other Governments are doing, and to introduce such measures as may appear best suited to local condi-The procedure adopted in Bengal, where distinct instructions have been given to the licensing officers to ascertain and consider local opinion, and where directions have been issued that, where municipalities exist, the Commissioners should be consulted in determining the location of shops, might perhaps be

generally followed with advantage; but beyond indicating our view to this effect, we prefer to leave the settlement of details to the several Governments. We shall, however, continue to give our attention to the subject, and we hope that it may hereafter be found possible to frame general rules, which Local Governments can supplement by the issue of instructions adapted to the special requirements of each province or locality.

No. 1-0-2-7 E., dated 19th February 1889.

From-H. J. S. Corron, Esq., Officiating Secretary to the Government of Bengal, To-The Secretary to the Government of India, Department of Finance and Commerce.

I AM directed to acknowledge the receipt of the orders of the Government of India No. 496, dated 25th January 1889, in which the opinion of the Lieutenant-Governor is invited on the following questions:-

(1) Whether the outstill system, instead of being given a moreextended trial, should be generally abolished; and

Whether a system of local option, as advocated by certain Associations, should be introduced in Bengal.

In reply I am to say that the first of these questions has always been a subject of burning discussion in Bengal; and the Lieutenant-Governor considers that it will be impossible to give any answer to it, without considering historically the policy which has been followed from time to time in the management of the excise on country spirits in these Provinces. The record of experience will be a more useful guide to future action than any expression of opinion based only on theoretic or abstract grounds. A full historical sketch will, I am to say, be found in the Report of the Bengal Excise Commission of 1888-84, to which reference is invited for a complete exposition of the Bengal Excise policy, both historically and otherwise; and the Lieutenant. Governor therefore bids me to confine myself in this letter to a summary which will bring into bold relief the important features connected with the

8. Under Regulation XXXIV of 1793 an outstill system was established, and a daily tax levied on each still at rates varying according to the importance of different localities. Under Regulation X of 1813, sudder or central distilleries were established at the head-quarters and in large towns of 21 districts, but the experiment was pronounced unsuccessful, and in a very few years most of them were abolished. By this Regulation outstills situated beyond 8 miles from a sudder distillery were to be managed as before; but authority was also given to farm the exclusive right to manufacture and sell spirituous liquors for any period not exceeding one year. Under Regulation VII of 1824 the limitation of farms to a term of one year was resoinded, and the farming system in other ways extended and strengthened. The result of this Regulation was that the whole Province was soon practically let in farm. At first the revenue increased, but it afterwards fell off from 19 lakhs in 1829-30 to 131 lakhs in At first the revenue 1834-35. This collapse in revenue was followed by the appointment in 1840 and 1844 of two Abkari Commissioners, whose jurisdiction was confined in Bengal Proper. These appointments, again, were abolished in 1852 and 1853; but the system of excise, whether administered under special Commissioners or the ordinary staff of revenue officers, did not change, and as a rule was outstill, which a few sudder distilleries only maintained where they had previously existed. The farming system continued all along in Behar and Cnota Nagpore.

4. It may be said at once that the forming system, which remained in force in those portions of the Lower Provinces where drinking is most prevalent, for nearly half a century, was a thoroughly had one. Every encouragement was given to drinking; for the more shops open, and the greater the consumption of liquor, the larger was the farmer's profit. Both from the revenue and moral point of view it is a system to be condemned. The management of the outstill system was also very unsatisfactory; shops were multiplied, and the result was too often the simultaneous increase of drinking and of the excise revenue. These evils were so apparent that it was resolved by Government in 1859 to introduce the central distillery system in the place of all others. It was pointed out that the existing system of outstills

was objectionable because it involved no minimum rate of duty—indeed had no fixed excise on spirits at all—because much of the general dissatisfaction with the abkari system which existed had arisen from the outstill practice, and because that system looked for a revenue rather to a very large number of spirit shops and a great consumption than to a high tax and discouraged consumption. A long controversy then ensued: The objections to the general introduction of the central distillery system—objections which, as it will be seen, experience has shown to be valid—were forcibly brought to notice, but they were overruled; and in 1863 peremptory orders were issued directing that outstills should be generally abolished and central distilleries established in their place. When these orders were passed there were 96 central distilleries and 6.655 outstills in the Province; four years later the number of outstills had been reduced to 165, and the number of central distilleries increased to 264.

5. The change of policy upon which the Government of India bave now called upon the Lieutenant-Governor for an expression of opinion was therefore deliberately adopted more than a quarter of a c ntury ago. The experiment of the general abolition of the outstill system has been tried. For a period of thirteen or fourteen years it was allowed full scope, and the records of Government contain the amplest evidence of the effect produced. The minute recorded by Mr. A. Money, C. B., Member of the Board of Revenue, dated 25th January 1875, upon certain memorials which had then been presented against the excise administration of Bengal, contains the following remarks:—

"In 1859 the Government determined to entend the sudder distillery system as the best mode of maintaining a proper equilibrium between the real demand for liquor and the means for its supply. The theory of this system is perfect. Every ounce of liquor consumed pays duty before it is offered to the public. The rise or fall of the demand is as correct in its indication as are the changes in a barometer; and according to such should the duty be regulated. The rate of duty becomes the best and proper check against undue facilities for drinking. It logically follows that no necessity exists for imposing any limit on the number of shops. The rate of duty

provides the necessary check."

The theoretic advantage of a central distillery system was therefore fully appreciated; but Mr. Money went on to explain that the system had not fulfilled the hopes of those who had insisted on its extension throughout the Perfect in theory, it was found to have two weak points in practice—the facilities it affords for fraud and the temptations and comparative immunity it holds out to illicit distillation. It is impossible to prevent combination between the members of the Excise staff and the distillers and shopkeeper. It is a simple and easy matter for instance to pass out of the distillery 50 gallons of spirit, taking duty on only 40 gallons and entering only 40 in the books, the profit on the odd 10 gallons being divided between the officer in charge of the distillery and the shopkeeper; or it is an equally simple process to enter the weeds of the 50 gallons in the register, but at a strength much below the real strength, and to levy the duty on the registered strength and divide the profit on the margin which has escaped taxation. On the other hand, illicit distillation continues practically unchecked: the revenue authorities have to trust almost entirely to the police, and experience has proved that the police are of very little use as abkari desectives. Illicit distillation is usually carried on indoors, and the sale of the liquor in most cases proves nothing, as the distiller is the shopkeeper licensed by Government. It was shown by careful enquiry in 1868 that in a very large number of shops, the details of which were specified in the report submitted, the amount of duty-paid liquor sold was insufficient to give a profit to cover the license fees and other expenses: and as it may be presumed that the liquor sellers did not carry on their business at a loss, the conclusion is inevitable that most of the liquor which they sold was smuggled.

6. The extent of frauds committed by distillery officers under the central distillery system is discussed at some length on pages 54 to 57 of the Report of the Bengal Excise Commission. Many of the distilleries were situated, at great distances from either district or sub-divisional head-quarters, in outlying jungly tracts, and practically out of the reach of all effectual supervision. The

duty on the spirit manufactured was many times the cost of production, and it is, not surprising therefore that distillery and excise subordinates combined almost everywhere to defraud the revenue by passing out the spirit either dutyfree or in payment of less than the proper rate. The records of every year are tull of cases in which the officers in charge of distilleries were convicted and punished; and there can be no doubt that the number of frauds detected was very small compared with those not found out. The Commission, by careful calculation and enquiry into the statistics of the number of gallons which paid duty and pa-sed into consumption during the year 1875-76, ascertained that the amount of spirit frauditlently sent out from central distilleries in that year could scarcely have been less than \$10,000 garlons, and may have amounted to as much as 560,000 gallons, and that the revenues were therefore de rauded of an amount varying from Rs. 7,70,040 to Rs. 12,70,000. There can be no doubt that frauds to a similar extent were perpetrated during every year of the central distillery system. The Board of Revenue furnished elaborate comparative statistics in 1870, which showed that during the previous ten years the revenue receipts were 55 or 60 lakus less than they would have been under the system which the central distilleries superseded. The whole of this less of revenue may be attributed to the collusion of the lower excise officials with the manufacturers.

7. The prevalence of illicit distillation during the central distilery period is no less conclusively established. The Commission came to the conclusion, which is supported by evidence recorded in their report, that, especially in the moltwa-producing tracts, there was much illicit distillation during the period in which these tracts were exclusively supposed from central distillation. They consider that there was extensive smuggling along various parts of the frontier. They were indeed of opinion that the harm done by illicit distillation and smuggling was less than the injury caused to the revenue by the illicit practices in central distillations. But they pointed out that the demoralisation fecasioned by the prevalence of illicit distillation and smuggling was much graver than a mere loss of revenue, and they have shown with great force and justice that among the greatest evils connected with the prevalence of such inficit practices in India are the dangers of abuse of power on the part of the peventive and detective establishments employed to restrain them, and the opportunities which are afforded to harass and oppress innocent people.

8. The evils which are described by the report of the Excise Commission were sufficiently obvious at the time to the district officers by whom the distillery system was worked, and who saw its defects; and they remonstrated with such persistence that the opposition to the system graw stronger and stronger until, under Sir Ashley Eden's administration, it was almost entirely swept away and the outstill system substituted. The orders for the abolition of the old system were very gradually and reluctantly passed; but when once a change in policy had been definitely estabhalied, the pendulum soon awang to the very other extreme. The principle was laid down by Mr. Alonzo Morey that "the sudder distillery system should be adopted in towns and the outstill system in the interior, with strict precautions against the tendency of the latter to multiply outstills in the interior, and against the tendency of the former to increase shops in towns." And so Sir theorge Campbell, while he was not fully prepared to admit that the contral distillery system had failed from aults inherent in it, or that it was expement to return to the monthly-duty system in its old form, expressed his readiness, so long ago as in 1871, to consider any recommendations that in succially remote and thinly-populated tracts one or more stills should be licensed at a morthly fee, which would cover a fair duty on all the spirit that such stills could turn out. In a similar way Sir Richard Temple acknowledged in more than one Resolution that the outstill system had been found better adapted than central distilleries to outlying parts of the country. In accordance with these views the number of central distilleries had been reduced from 257, the number in 1868-69, to 211 in 1877-78, and the number of outstills had increased during the same period from 201 to 862. But the orders of 1877, which directed that sudder distilleries should be maintained only at central and populous places, and that outstills should be introduced beyond this radius, immedistely produced a more marked effect. The very next year the number of outstills had increased to 3,911, and the central distilleries were reduced to

In 1880-81 there were only 22 central distilleries left in Bengal, while the

outstills had increased to 5,657.

9. While avoiding one error, the Excise administration of these provinces has thus fallen into another. There can be no doubt that the abolition of the central distilleries was followed in many places by an increase in the consumption of liquor. The Government was not unaware of this tendency, and steps were taken in 1880-81 to effect a reduction in the number of outstills. By 1884-85 the number had been reduced to 3,747; but the evil was so great and urgent, and the price of liquor had been so obviously cheapened by the extension of the outstill system, that it became necessary to take special measures to remedy the evil, and with this object the Bengal Excise Commission was appointed in December 1883. The report of this Commission is a landmark in the history of Bengal Excise. It was submitted to Government towards the close of 1894, and was reviewed by Sir Rivers Thompson's government in a Besolution dated 10th March 1886, from which it will be convenient to make the following extract :-

"8. The special object of the appointment of the Commission was to ascertain the causes of this increase, and to suggest means by which they might be removed; and their enquiries were directed mainly to these points. In their opinion the primary cause of the growth of the habit of drinking among the people is the influence of social, moral, religious changes in relaxing the restrictions which had previously kept large classes from indulging in spirituous liquors; but there have been other minor causes, without which consumption could not have developed as it is seen to have done. Increase in the purchasing power of the consuming classes is assigned as a reason for some portion of the increased consumption; but the greater part of it must be otherwise accounted for, and the Commission enu-

merate the following causes:—
(1) The suspension in 1878 of the long-established rule limiting the capacity of stills, thus enabling the distillers to produce from their large stills greatly increased quantities of liquor at greatly reduced prices.

(2) The excessive number of shops that have been licensed, total population and area having alone been considered, although the proportion of the consuming population to the total population varies greatly in different districts.

(3) Improper selection of sites for shops.

9. The recommendations which the Commissioners make for removing these causes of increased consumption, and for remedying minor evils incidental to the present system, may be summarised as follows:

(1) Central distilleries should be re-established in all large towns at the head-quarters of districts in which there is a great demand

for country spirit.
(2) In other towns the stills should be grouped within one enclosure outside the inhabited parts of the town, and care should be exercised in the selection of the retail shops within the town

supplied by these stills.

(8) In each district a maximum aggregate capacity for all outstills should be fixed, and the number of outstills and size of each still should be determined with reference to the muximum aggregate. All stills holding more than 10 seers should be of metal, and should be registered and stamped by the Excise authorities. The upset price of each still should be proportionate to its capacity, and should be calculated on the basis of the duty (at a rate fixed by Government) which could be levied on its outturn at a given strength.

(4) The aggregate capacity of the fermenting vate allowed to each

still should also be fixed.

(5) A minimum price should be fixed for the cheapest sort of liquor according to the circumstances of each district and the prices now prevailing. On this subject Mr. Reily dissented from his colleagues.

(6) Excise establishments should be reconstituted on a more liberal

scale."

10. On the various recommendations made by the Commission on minor points it is unnece-sary to dwell. It is sufficient to say that the principles haid down by the Excise Commission have almost without exception been accepted by Government. The elaborate enclosures which accompanied my letter No. E P5, dated 6th December 1858, will show how far it has been found possible to give offect to them during the past 21 years. In the face of all the difficulties which must everywhere accompany the introduction of a new system, it cannot be said that all the restrictions recommended have as vet been successfully imposed; but it may be fairly urged that great improvements have been effected; that the principle has definitely been established; that the di-titler, under the outstil system, is not free to brew as much spirit as he likes, and sell it wh never he likes; and that the levy of duty as well as the conditions both of distillation and sale are carefully regulated with reference to the existing local demand The system in force is in fact a system of regulated outstills, and, as the Excise Commission have been careful to explain, if the producing capacity of the outstills is limited, and the revenue paid anteach outstill is calculated in proportion to its capacity, there is little real difference in principle between such a system and the system of central distill ries.

On the other hand, the obvious advantages of the outsill system in repressing fraud and illicit distillation are retained. It has been pointed out by the Excise Commission that almost all the abuses connected with the management of the central distillaries disappeared with their abolition in outlying and imperfectly supervised tracts. There may be some openings for corruption at present, but the are comparatively small, and detection is much more easy with even moderately watchful supervision. The outstill-holder is urged by the strongest motive of self-interest to do all in his power to put down illicit distillation, while the retail vendor, under the central distillary system, was

often himself the chief illicit dis itler.

11. The success of the present system of regulated outstill distillation must, however, entirely depend upon whether it is found possible to limit the. size of the stills and vats. The Lieutenant-Governor has already observed that, unless the experiment of limiting their capacity or, in other words, of restricting the amount of pro f-spirit to be distilled in a month in each outsill, can be successfully carried out, he is unable to see how the outstill system can tarl to degenerate into the old indefensible arrangement under which the outstillholder becomes a farmer pure and simple, with full power and every inducement to cheapen his liquor and increase the consumption thereof to the utmost possible excent. He has treely admitted that unless by some means the outturn of liquor from the outstill system can in practice of restricted, it will be exceedingly difficult, if not impossible, to justify the continuance of the system. The regulation of the outturn and the levy of a proportionate duty on it are therefore the main points to which the effirts of the Government of Bengal and of the officers employed under Government in currying out its excise policy are now directed. Such regulation is deemed by some to be impossible; by others it is thought to be neither impossible nor even very difficult. But difficult or easy, it is the point upon which the maintenance of the system turns.

12. The Lieutenant-Governor is convinced that the repeated changes which have been made in the system of excise in country spirits are most injurious, and that no exclusive system can be adapted to these Provinces. He desires me to express his emphatic concurrence with the following remarks recorded in paragraph 102 of the Report of the Excise Commission:—

"At the best, every system of excise that has yet been devised has evils inherent in it, and dangers which have to be constantly guarded against. There is no system either unobjectionable in theory or faultless in practice, and all that can be done is to adopt for each place the form of taxation and manner of working which may seem best suited to it, and most likely to check avowed consumption without giving an irrestrainable impetus to unlawfull practices. This conclusion has forced itself upon the Commission as the main outcome of their enquires, and it has been clearly indicated throughout this report, but they think that it cannot be stated too strongly and scarcely repeated too often. For in looking back over the management of Excise in Bengal since 1790, nothing comes out more clearly than the mischiel caused

by the belief that the particular system in favour at a given time was the one perfect and universally applicable system; and by the determination of its

supporters to induce it everywhere and at all risks."

The central distillery system failed, because it was indiscriminately applied to all parts of the country without proper means of supervision, and no hetter success, was obtained when outstills were introduced with equal indiscrimination and equally without proper check and controll. It was with due regard to previous experience, and the recommendations of the Commission, that the cardinal principle was laid down by Sir Rivers Thompson's Government that "an outstill system properly regulated is the most suitable for the country in general, but where special means of close supervision exist, and a large drinking population is found in a small and well-defined area, dentral distilleries, in which alone a uniform tax can be levied on spirit according to its strongth, should be established." Under these instructions no uniform system has been adopted, but different systems have been applied which vary with the conditions and circumstances of different parts of the country. The tendency to which Sir Steuart Bayley has always given every encouragement is to extend contral distilleries to every locality favourable to their introduction. The number of distilleries and distillery shops has increased from 21 and 479 in 1884-85 to 25 and 570 respectively in 1887-88. It is now in contemplation to gradually replace the outstill system by central distilleries throughout the whole truct

of country in the immediate neighbourhood of Calcutta.

13. These observations, in which the history of the past has been reviewed and the present excise policy of the Government has been briefly described, will, the Lieutenant-Governor trusts, be found to furnish a sufficient answer to the first of the specific questions raised in your present letter. Sir Stewart Bayley is not pre; and to look favourably on any proposal for the immediate or universal abolition of the outstill system in these Provinces Ho as not in a position to suggest the general introduction of any other system in its place. Experience has decisively shown that the re-introduction of the old central distillery system, as it was worked in rural tracts, would produce demoralising results which are certainly not less injurious to the country at large than are the evils of the outsult system. The mere abolition of outstills in tracts where central distilleries cannot be introduced would obviously not tend in any way to diminish drunkenness. The whole question of excise is now receiving an exceptional amount of consideration, both at the hands of Government and from the Revenue officers entrusted with the administration; the supervision of the settlements of excise shops for the ensuing year,—a process which includes enquiry into the number of outstills to be licensed. the specific locality to be fixed upon for each ou still, the restrictions to be imposed on each outstill as regards still and vat copacity, the upset prices to be fixed in order to assimilate the rate of fee to the rate of duty payable on distillery liquor in the neighbourhood, and the minimum price to be unctioned for retail sales, - has been imposed on a specially selected officer of standing and experience in excise matters, and the appointment of a Special Excise Commissioner in Bengal has been recommended to the Government of Indianal the Secretary of State, with immediate refer nos to the necessity of enforcing organisation in the management of this important department. The moment would, therefore, in the Liquienant-Governor's spinion, he very inopportune for venturing upon any new departure in the administration. Every effort is now being made to improve existing systems on the lines of a policy accepted and approved, a large increase of expanditure has been incurred in the revision of distillery establishments, and proposals are under consideration for further strengthening the special Excise preventive staff which is now too weak for efficient control. It has already been reported to the Government of India that the transition from a system of unrestricted outstills to one of rigid regulation admits only of gradual accomplishment, but that the facts in the possession of this Government afford good ground for believing that it may be worked to a suggessful issue. The interruption to these reforms, which would be occasioned by any such radical measures as the general apolition of the outstill system, with nothing better than central distilleries to replace it in all localities, would create embarrassment and difficulties the end of which it is not easy to foresee.

14. Turning now to the second question raised in your letter. Lam to say that the Lieutenant-Governor is convinced that it will not be possible to introduce into Bengal any such system of local option as has been advocated by the Associations who have presented memorials to the Secretary of State. The peculiar conditions of acciety in this country are such that it is eltogether impossible to delegate to local bodies the newer of dealing with the complex and difficult problems connected with Excise administration. In the first place it is not allowable or members of the Mahamedan community to openly countenance or tolerate in any way the consumption of spirituous liquous, The use of spirite is forbidden by the Koran. As a matter of fact, Manomedans in Bengal are, as a rule, very abstemious, and the upper classes, rarely, if ever. indulge in drinking. The representatives of this community would undoubtedly, if it were in their power to do so, declare absolutely for the prohibition of all almbolie stimulants. It would be incumbent on them by the teners of their religion to do so. A Mahomedan gentleman, although he may tolerate the consumption of spirits by others when he is not responsible for its repression, could not venture to rise in his place at a meeting of a Municipality or District Board, and authorise the establishment of a liquor shop anywhere or under any restrictions. Similarly, in the case of Rindoos, who are not restrained by any religious sentiment from dealing fairly with excise questions, it is no less the fact that the upper classes of the community who, from the nature of the case, can alone find representation in local bodies, are equally precluded from openly countenancing the establishment of shops for the sale of liquor. Notwithstanding that many Hindoo g atlemen are without prejudice in regard to spirit drinking amongst themselves, and will occasionally indulgin private. It is a matter of notoriety that public opinion on the subject runs so strongly among them that one and all of them, including those who drink in private, would object in the same manuer as the Mahomedan's would do to any proposed for licensing a spirit shop. The influence of public opinion operates almost as strongly within the Hindoo community in this respect as does the direct teaching of the K ran upon a Mahomedan. If, therefore, power without responsibility is entrusted to local bodies, whether Municipalities or District Boards, consisting as suou bodies must do of a large majo ity of Hindee and Muhomean gentlemen, there can be no doubt but that the lower crasses who are not represented, but who habitually use stimulants, would be driven to the consumption of illicit liquor, and the whole system of Excise administration would be thrown into confusion. This condition of things is not likely to be materially modified for many years.

15. It is necessary for the Government to guard against any such class tyranny as the introduction of local option in this country would infallibly create. There is a certain proportion of people in Bengal,—fortunately a proportion much less than obtains in most other countries, but still considerable,—who are accustomed to drinking and whose craving for stimulants must be satisfied. "It is," as Mr. Money wrote in the Minute which has already been quoted in this letter, "mere foolishness to expect that a certain proportion of the prople of this country will not continue to use simulants, or that the Excess revenue will not increase. As the upper classes adopt more and more European habits, we must expect to see them tuke the bad with the good, and probably at first even more of the bad than of the good; while as the position of the lower classes improves, as agricultural produce yields a better price to the cultivator, and yearly the number increases of men, women, and children who cara a livelihood such as they never dreams of in mills and factories, there will be a larger consumption of everything the mass of the people care for. They will wear more clothes, they will eat more food, and they will drink more liquor. Any attempt to entorce sobriety in a country where illicit distillation is so easy and so difficult of detection would be a failure. All we can do is to limit ourselves to supplying the demand, and not to create it; to open no new shops except on proof that they are required to meet an existing want; and to act on an honest recognition of the truth that the Excise revenue is a very small matter in comparison with the comfort and well-being of the people." It is not the case with the great bulk of the lower classes who habitually use stimulants that they drink only for the purpose of intoxicating themselves. The statement is frequently made,

but it is not more true than it would be if applied to similar classes in England. If, however, this were the case, it would still be impossible to enforce souriety by the prohibition of drinking, and, were it possible, the risk must always be great that those who are used to drink would be driven from the comparatively innocuous spirit of the country to the consumption of more injurious drugs. It is mainly for the protection of the labouring classes, who are accustomed to some stimulant, that is incumbent on the Government to retain its authority over the liquor taffic, and while regulating consumption by every means within its power, not to deny altogether to the unrepresented masses the opportunity of satisfying their reasonable craving. It cannot be expected that local bodies would be in any degree representative of the classes who are affected by local excise measures. To entrust the Excise administration of the country to their hands would lead to class intolerance and class restrictions, which can only be obviated by the direct and independent action of Government.

16. At the same time the Lieutenant-Governor is of opinion that a proper deference should be paid to expressions of local opinion in questions connected with the liquor traffic as well as in other matters. It is the duty of the Government to ascertain the sentiment and desire of the community amongst whom liquor shops are introduced, to comply with it whenever possible, and not to overrule it except under circumstances where such a procedure can easily be justifi d. The expression of opinion of Municipalities and District Boards, especially in regard to details such as the choice of sites and like, will often be a valuable exponent of public feeling to which due attention should always be paid. Such local sentiment is entitled to consideration, and it will be found that various orders have from time to time been issued by this G vernment and the Board of Revenue in which the observance of this policy is enjoined. It has been directed that the sites of shops should not be chosen near to murket places, bathing gl ats and places of public resort, schools, hospituls, places of worships, factories, the interior of villages, the sides of roads leading to bathing gits or places of water-supply, and in some districts along main roads or in villages inhabited by aborigines of known drinking habits. The existence of a nuisance by reason of the establishment of shops is not tolerated, any every possible concession to public opinion is accorded in such matters. The Lieutenant-Governor, however, cannot admit that, under the existing conditions of these Provinces, there is any justification for going further than this, or for introducing in any shape a system of local option among local bodies, and for entrusting them with the power to prevent the sale of liquors.

No. 1-0-2-16E., dated the 4th April 1869.

From- H. J. S. Corron, Esq., Offg. Secv. to the Gavt. of Bengal, To-The Secretary to the Govt. of India, Dept. of Finance and Commerce.

I am directed to acknowledge the receipt of your letter No. 994, dated the 22nd February 1889, enquiring—

(1) whether any, and if so what, rule or procedure is prescribed in Bengal requiring the wishes of the residents to be ascertained before a shop for the sale of intoxicating liquors is licensed in any locality;

(2) whether the rules require the opinion of local public bodies to be

asked, or if it is customary to de so;

(8) whether attention is paid to any remonstrance which the residents or local bodies may make and whether their wishes are taken into consideration; and

(4) whether liquor shops are opened and closed at the discretion of the officers of the Excise Department, or whether the police or magisterial authorities are consulted in the matter.

2. In reply to the first three questions raised by the Government of India, I am desired to say that no hard-and-fast procedure has been prescribed in these provinces. Local officers are guided by the following instructions

which were issued by the Board of Revenue in their circular No. 666B., dated 2nd June 1'86:—

"The Board are averse to laying down a hard-and-fast rule on the subject of the selection of sites, and the Government have only insisted on greater care being exercised in the matter. The following principles may generally be observed. Each shop should be fairly accessible, as the more public is the place of vend, the letter will be the supervision; local opinion should be considered, though not necessarily followed; on the other hand, sites should not, without some good rensen, be chosen, near to market places, bathing ghats and places of public resort, schools, hospitals, places of worship, factories, the interior of villages, the sides of roads leading to bathing ghats or places of water-surply, and in some districts the sites of main roads and villages inhabited by aborigines of known drinking habits."

It was recently brought to notice by Mr. Westmacott's enquiries in the Hooghly district that the Board's orders respecting sites had been neglected in some cases, and the opportunity has again been taken to enjoin Collectors to be specially careful in selecting sites where complaints have been made, or where it is found that from any reason the sites already selected are of jectionable. It has been pointed out that, as a general rule, outstills should not be in baznars at the entrance to baznars; and that, though they should be easily accessible to persons requiring liquor, they should not be in such situations as to obtrude themselves on the attention of the public, or to render persons passing by subject to annoyance from those who drink at the outstiles.

The Board report that remonstrances against the grant of a license or selection of a site are seldom made by residents or by local bodies, but that their wishes, when expressed, are duly considered, and are not di-regarded

without good reason.

In regard to municipalities, it was directed by this Government in 1884, in accordance with the recommendation of the Excise Commission, that the Municipal Commissioners should be consulted in the choice of sites; and it is now reported by the Board that due attention is paid to the views of these local authorities before opening liquor shops within municipal limits.

8. With reference to the last enquiry of your letter, I am to say that under the excise rules now in force the Collect r is required to lay before the Magistrate, and where there is a cantenment, before the officer commanding the station, a list of all the shops to be licensed during the ensuing efficial year. The Magistrate is empowered to object to any new site in which it is proposed to open a new shop, and to any old site if the experience of the past year has suggested doubts as to the advisability of renewing the license. After the licenses are sold, the Magistrate is again consulted with regard to the character of the licensees, and may object to any person who appears to him to be unsuitable.

In Calcutta a certificate of good character from the Commissioner of Police is required before a license can be finally granted and issued. The Excise Superintendent is also required to consult the Commissioner of Police with regard to every new site, and no such site is let by auction or otherwise unless it has been approved by both officers, subject to a reference to the Board of Revenue in case of disagreement. Before a shop is opened on a new site, notice of the intention to do so is published at the police-station and in a conspicuous place on or near the proposed site at least fifteen days before the grant of the license; and all objections unged by the inhabitants are carefully considered by the Superintendent in communication with the Commissioner of Police. There have quite recently been several instances in Calcutta in which, when the neighbouring residents have objected to the site of a shop for aufficient reasons, permission to open it has been refused by the police authorities.

4. A license which has been regularly issued can only be cancelled during the period of its currency by the Collector, under section 29, Act VII (BC) of 1878, if the fee or duty therein specified be not paid, if any other condition of the license is violated, or if the holder is convicted of a non-bailable offence. The police and magisterial authorities are not ordinarily consulted when a shop is closed under this procedure.

No. 3686, dated 18th July 1889.

From-E. J. Sinkenson, Esq., Officiating Secretary to the Government of India,
DEPARTMENT OF FINANCE AND COMMERCE.

To-All Local Governments and Administrations.

In my 1 tter No. 994, dated the 22nd February 1889, Local Governments and Administrations were asked for reports showing to what extent the wishes of the residents in the neighbourhood are ascertained and considered before a shop for the sale of intoxicating liquors is licensed in any locality. I am now directed to forward copies of the replies received to that letter and of the

- Majesty's Secretary of State, and to invite special attention to paragraph 23 of the despatch, which explains the object with which the enclosed papers are circulated.
- 2. It will be observed that, in the opinion of the Government of India, the best method of ensuring that due regard shall be paid to local public opinion in the matter of licensing liquorshops consists in the issue of appropriate instructions to the officers to whom the excise administration of districts is entrusted. The Government of India do not consider that it would be useful at present to issue any general instructions on the subject applicable to all provinces, but desire that the several Governments may give the matter careful attention, and after consideration of the measures in force and the experience gained in other provinces, as described in the enclosures of this letter, take such steps to secure the object in view as may seem suitable. ernment of India are inclined to think that the procedure adopted in Bengal, where distinct instructions have been given to the licensing officers to ascertain and consider local opinion, and directions have been issued that where municipalities exist the Municipal Commissioners should be consulted in determining the location of shops, might be generally followed with advantage. But having regard to the varying conditions of different provinces, it has been thought desirable for the present to leave to Local Governments full discretion to decide what measures are expedient in each case.

No. 67 (Recenue), dated 14th July 1889.

From - The Secretary of S ate for India,

I have considered in Council Your Excellency's letter (No. 157, dated 25th May 1859), with enclosures, concerning the outstill system of excise in Bengal, and concerning the advisability of introducing some form of local option in granting or continuing licenses for liquor shops. Since your present letter was sent, Your Excellency will have received my despatch, dated the 16th May, forwarding a copy of a report of debate in the House of Commons on the 30th April, and expressing my confidence that your Government would, in accordance with the policy which you have a ready adopted, proceed, with as little delay as possible, to carry into effect measures for the more effectual control and discouragement of the liquor traffic.

2. In regard to the outstill system in Bengal, I find that in March 1986 it was decided by the Bengal Government, after reviewing the report of the Excise Commission, to re-establish the central distillery system in all towns and to regulate more effectually the working of the outstill system. I gather, however, that up to a recent date, the central distillery system had been re-introduced into the Howrah and Hooghly districts only, and that it was still doubtful whether the working and yield of outstills could effectively be regulated. Meanwhile, a Bengal officer, specially versed in excise matters, has reported that in all districts of Bombay the central distillery system can be effectively worked, and that it could be applied equally well to most Bengal districts. I hope that the rate of reform in Bengal will be materially accelerated, and that the ratio of excise revenue raised under the outstill system will be reduced

• See enclosure to Government of from 6: per cent, to some such ratio as that which lades, letter No. 55 of 1889. obtains in Madras and the North-Western Pro-

vinces at any rate, if not to that obtaining in Bombay. I consider that the outstill system should not be abowed to continue, save perhaps in sparsely peopled and comparatively wide tracts outside the populous districts of the Bengal plains.

3. In regard to the adoption of any system of absolute local option in licensing shops, I agree with the view taken by Your Excellency's Government. I consider, however, that the Punjab rule to which your letter refers might be recommended, if not for general adoption, at least to the consideration of all the Provincial Governments, in order that local and municipal opinion, when ascertained or expressed, might be allowed due weight in deciding the number and position of liquor licenses to be issued or continued in any tract or town.

No. 323, dated 15th October 1889. From—The Government of India, To—The Secretary of State for India.

We have the honour to acknowledge receipt of Your Lordship's despatch No. 67 (Revenue), dated the 18th July 1889, communicating remarks regarding the outstill system in Bengal, and the advisability of introducing some form of local option in granting licenses for liquor shops.

2. We desire, in the first place, to correct a serious misapprehension as to the extent to which the Bengal Government has already given effect to the recommendations of the Excise Commission. In paragraph 2 of the despatch it is said—

It was decided by the Bengal Government, after reviewing the report of the Excise Commission, to re-establish the central distillery system in all towns, and to regulate more effectually the working of the outstill system. I gather, however, that up to a recent date the central distillery system had been re-introduced into the Howard and Hooghly districts only.

In paragraph 105 of the Report of the Excise Commission, it was recommended that the central distillery system should be re-introduced into the twelve towns named in the margin; and it was added—

The question of establishing central distilleries in several other places was carefully considered by the Commission, but they decided against recommending it.

A reference to the Excise Reports of the Lower Provinces for 1885-86, paragraph 79, and 1886-87, paragraph 83, will show that by 1st April 1887 the central distillery system had been re-introduced in all the places in which the Commission recommended its introduction. It has also been since introduced in Howrah.

We also forward copy of a Resolution, dated the 10th August 1889, recorded by the Government of Bengal on Mr. Buckland's report of his enquiry into the systems of excise in Bombay and Madras. It will be seen from that Resolution that the Lieutenant-Governor has decided to adopt the system of administration which Your Lordship indicates as desirable, and has instructed the Board of Revenue and the Excise Commissioner to endeavour to replace outstills by central distilleries in all places, except where special circumstances, such as those mentioned by Your Lordship, render this inexpedient. We have forwarded a copy of the despatch under reply to the Government of Bengal, who, it will be observed, have decided to proceed much beyond the recommendations of the Excise Commission in the direction of introducing the central distillery system.

8. With reference to paragraph 3 of the despatch, we have the honour to enclose a copy of our circular No. 3686, dated 18th July 1889, regarding the weight to be attached to local and municipal opinion in deciding the number and position of shops licensed for the sale of liquor.

EXCISE ADMINISTRATION OF INDIA.

No. 29 of 1890, dated Calcutta, the 4th February 1890.

From—The Government of India,

To—Her Majesty's Secretary of State for India.

In our Despatch No. 209 of 6th July last we informed Your Lordship

"That, in the opinion of this House, the fiscal system of the Government of India leads to the establishment of spirit distilleries, liquor and opinion shops in large numbers of places where till recently they sever existed, in defiance of Native opinion and the protests of the inhabitants, and that such increased facilities for drinking produce a steadily increasing consumption, and spread misery and run among the industrial classes of India, esting for immediate action on the part of the Government of India, with a view to their abatement."

that we proposed to address you, at a future date, on the subject of the Resolution adopted by the House of Commons condemning in general terms the Excise administration of the Government of India. We have now the honour to fulfil that promise.

- 2. We are fully impressed with the importance, and indeed necessity, of placing the Excise administration of this country on a satisfactory basis, but, as Your Lordship is aware, serious difficulties are encountered in attempting to establish in India a system or systems of Excise administration which shall be free from objection. These difficulties are, we believe, greater than are met with in any other country which is ruled on principles in accord with modern civilization, and the complexity of the questions involved makes it difficult for those who have no practical experience of the working of the administration to appreciate the obstacles with which we have to contend. Under such circumstances it is a matter for regret that the statements made in the debate on the Indian Excise system should, as it appears to us, have been inaccurate and misleading, and we feel it necessary to reply at some length to the criticisms which have resulted in the condemnation as a whole of the many widely differing and complex Excise systems which are in force in India.
- 3. With a view to indicating the unsatisfactory nature of the evidence before the House of Commons when the Resolution in question was passed, we have obtained from the several Local Governments authoritative reports regarding the statements made in the course of the Debate, and the correspondence will be found among the enclosures to this Despatch. On our own behalf we desire to add certain explanations and remarks regarding these statements: we

shall take the opportunity of explaining at some length the chief difficulties connected with Excise administration in India, and the methods adopted for overcoming them; and we shall also refer to the principles by which our policy in regard to liquor and drugs is guided, and explain the nature of the measures by which practical effect can be given to that policy. The task of commenting on statements made in the House of Commons is one which we would gladly avoid, but the interests at stake are too important to permit of our evading the duty, however unpleasant. In view of the position of the liquor question in India at the present time, we shall quote freely the evidence on which our conclusions are based.

SECTION I .- STATEMENTS MADE IN THE DEBATE IN THE HOUSE OF COMMONS.

Unfairness of treating the change in system made in Bengal in 1877 (and reversed after 1884), as a fair representation of the results of the Excise policy of the Government of India.

- 4. In the first place we desire to point out that what took place in Bengal between 1877 and 1884 cannot fairly be taken as an example of the deliberate and settled policy of the Government of India. The defects of the Central Distillery system, which will be mentioned hereafter, led in 1877 and the next few years to its being largely replaced by the Outstill system in that Province; and the Revenue authorities, in January 1879, in consequence of certain difficulties in enforcing it, suspended the rule which had previously been in force limiting the capacity of each outstill, and thus preventing the owner from manufacturing more than a certain quantity of spirit. The latter change was not made under the authority of either the Supreme or Local Government. Complaints followed, which, though exaggerated, were not without foundation, that the change had cheapened the price of liquor and led to an increase of drinking. In this view the number of outstills was steadily reduced from the year 1880, and a Commission was appointed in 1883 to enquire into the whole question.
- 5. The conclusions of the Commission were accepted by the Local Government and by the Government of India, and the Outstill system was contracted to the extent which the Commission recommended, and its other recommendations regarding the regulation of that system were carried out as quickly as was practicable. These changes were made before the question was discussed in Parliament, and although we admit that an error was committed in so greatly extending the Outstill system after 1877, and especially in removing the limitation on the capacity of outstills, and although we regret that the change was made, we are unable to find in the facts any sufficient support for the assertion that we are indifferent to an increase of drinking on the part of the Indian population, or any reasonable grounds for attacking the general-policy of the Government of India in Excise matters.

No evidence to show that there has been an increase of drinking in Bengal since 1884, but evidence to show that there has been a decrease.

6. The remarks of 'the Government of Bengal in letter No. 413, dated 28th November 1889, enclosure No. (5) of this Despatch, deal with the charge made by Mr. Smith that there has been an increase of drinking in Bengal within the last few years. The evidence quoted in support of the charge is not of recent date. The Bengal Commission reported in 1884 that up to

that time there had undoubtedly been an increase in the consumption of intoxicating liquor. None of the evidence now brought forward is of a later date than that year. The Bengal Government, after considering and accepting the conclusions of the Commission, immediately proceeded to take steps to carry out its recommendations. There is no evidence to support the charge that drinking has increased in Bengal since the Government of that Province began in 1885 to carry out the Commission's recommendations. On the contrary the evidence supports the opposite conclusion: there has been a decrease in the issues of spirit from central distilleries in Bengal from 1,129,056 gallons in 1886-87 to 1,057,119 gallons in 1888-89, notwithstanding the fact that in the latter year the area covered by the Central Distillery system was greater than in the former year: the issues from outstills cannot be accurately stated, but the number of such stills and the area served by them has been reduced, and the total liquid capacity of all the outstills is little more than one-half what it was in 1886-87.

Opinion of Babu Keshub Chunder Sen, given in 1874, had no reference to recent years.

- 7. In support of his assertion that "every opinion confirms the astonishing increase in the consumption of spirits within the last few years," Mr. Samuel Smith quoted an extract from a memorial of the late Babu Keshub Chunder Sen, a well-known social and religious reformer. That memorial was forwarded to the Viceroy in January 1874, and was therefore written more than fifteen years before Mr. Smith quoted it to prove an increase of intemperance within the last few years. At the time when that memorial was written, the Outstill system, against which Mr. Smith's criticisms of the Excise administration in India, so far certainly as they apply to Lower Bengal, are mainly directed, was in force in that Province only to a very limited extent.
- referred was believed to have occurred mainly among the classes who had received an English education: the quotations made in support of his opinion and the general tenor of the memorial confirm this; the writer attributed the increase to two chief causes—"the unsettlement of popular faith and ideas, in consequence of the spread of English education, and the unnecessary multiplication of liquor shops." The Lieutenant-Governor of Bengal, after considering all the evidence forthcoming at that time, recorded his opinion that intemperance was on the increase only among "several sections of the educated classes among the natives at the Presidency Town (Calcutta) and at other large centres of national life."
- 9. The number of shops for the sale of distilled and fermented liquor in Bengal in each year from 1868-69 to 1874 was as follows:

		-	Distillaries.	Outstille.	Rum,	Imported liquor.	Tori.	Pashwai.
1868-69			5,829	281	778	865	22,055	1.548
1869-70			5,682	300	776	901	22,329	1,655
1870-71			6,100	318	816	▶ 965	21,670	1,087
1871-72			6,153	1,058	773	953	21.6H9	1,915
1872-78			5,040	1.075	210	944	22,351	1,944
1878-74	•		4,728	1,076	122	891	22,873	2,006

Pachwai is a comparatively harmless home-brewed beer, and the figures just

given do not support the contention that any increase of drinking that may have taken place in the years preceding 1874 could, in any appreciable degree, be ascribed to "the unnecessary multiplication of liquor shops." We have no doubt that the other reason assigned for increase of drinking, namely, the unsettlement of popular ideas and faith, in consequence of the spread of English education, was correct, though we believe that the amount of increase and of evil resulting from it was exaggerated. Babu Keshub Chunder Sen saw, and deplored, this increase of drinking among that class of his countrymen to which he himself belonged, and in his desire for reform he urged that the number of liquor shops should be reduced; in point of fact any increase in the habit of drinking that may have taken place among certain classes at that time was not due to an excessive number of shops, and would not have been stopped by their reduction.

Temporary increase of drinking sometimes due to spread of English education.

10. One of the earlier effects of the spread of education and enlightenment in such countries as India may sometimes be an increase in intemperance : old checks based on imaginary sanctions lose their power of restraint, and the result is excess. But this result is, we believe, only temporary: education in time establishes more solid and enduring restraints against intemperance than those which it destroys. The gradual growth of a healthy public opinion will. in our opinion, reduce intemperance in a wider, surer, and more lasting manner than the most severe restrictive measures which Government could adopt. It seems to us better to await with confidence this result of education and to assist in the formation of sound public feeling than to be hurried by alarm at a temporary evil into hasty attempts at forcible repression. A change of this nature in public opinion has occurred in the present century among large classes of the people of Great Britain: habits of intemperance which formerly prevailed among certain classes in England without disgrace are now condemned as disgraceful. We are glad to think that enlightened public opinion has already begun to work in the direction of sobriety and moderation among the class of educated Natives of Bengal to whom Babu Keshub Chunder Sen's remarks applied, and we quote with satisfaction the following extract from the evidence of Mr. Romesh Chunder Dutt, Magistrate and Collector of Backergunge, a Member of the Bengal Civil Service, given to the Bengal Excise Commission in 1883 :-

"I wish to make a few general remarks about drinking among respectable and educated men. It is a mistake to say, as is often said, that English education has introduced drink in India. Drink was well known in ancient India, and we know enough of the facts of the last century to be able to assert that urinking was a fashionable vice among the courtiers and retainers of princely semindars. Devout Shakts worshippers have also been partial to drink for many centuries in Bengal, and semi-aboriginal castes have always been addicted to drink. There can be no doubt, however, that with the introduction of English education in Bengal in the early part of this century a sort of impetus was given to drinking among the higher classes. Educated men who broke through the prejudices against forbidden food disregarded at the same time the salutary restraint against drink. Drinking was regarded as a ort of index to liberal ideas and reformed ways—as a commendable accomplishment in an educated gentleman. When there is a reaction against ancient prejudices and senseless social restraints it is difficult to confine it within the exact and proper bounds, and the first distinguished men from the Hindu College, who took part in all the commendable political and ducational reforms a generation of two ago, were generally men who were not admired for their sober habits in private life. The example of these distinguished men was of course followed by a large circle of educated men in Calcutta.

"I have noticed with pleasure a salutary change in Calcutta society within the last 20 years or less. A closer knowledge of English society, derived from a more careful study as well as by the frequent visits of our young men to Europe, has convinced our educated countrymen that drinking is not a necessary accomplishment in English society, and that drunkenness is simply not tolerated. The public men of the present generation, who take a lead in most political and social agitations, and whom the great majority of educated men almost instinctively follow to some extent, are setting a commendable example of temperance, which is different from the example which was set 30 years ago. The thousands of school-boys who flock to public places to listen to the speeches of their leaders in political and social matters are intimately acquainted with their habits and thoughts in private life, and instinctively adopt many worthy and amiable traits in their conduct. I believe I am right in stating that drunkenness is decreasing among the higher and better educated classes in Calcutta, and the example set in Calcutta spreads rapidly among the similar classes in all mofuseil towns.

"I have made the foregoing remarks in order to show that drinking among the educated classes has nothing whatever to do with the Outstill system, and that it depends entirely on

other influences on which Excise legislation has no control."

Evidence of Mr. Metcalfe.

11. Mr. Smith also quoted the evidence of Mr. Metcalfe, Additional Commissioner of Patna, before the Bengal Excise Commission, to show that intemperance had increased in Bengal in consequence of the re-introduction of the Outstill system. The passage quoted from Mr. Metcalfe's evidence was as follows:—

"I have been officially connected with this district since 1879 to 1884 as Collector and from 1874 to 1876 as Officiating Commissioner.

"My experience has been as a Collector both of the Sudder Distillery and Outstill systems.

"The habit of drinking has extended to all classes. The quantity drunk is larger owing to the cheaper price at which it is now sold. Persons who previously were satisfied with a dram are now able to afford a bottle or two.

"Among the labouring and artizan classes drinking has increased to a deplorable extent. I have not noticed any cases among school-boys, but my experience is that domestic servants, day-labourers, and women drink to an extent I never noticed before under the Distillery system. Under the Outstill system the habit of drinking is forcibly brought home by instances such as these. My coachman has tumbled off his box drunk. If I want a moches to mend the harness, I have to arrange that he shall be sober the night before. A workman now drinks his bottle of spirit as regularly as he eats his food, and quarrels have become frequent."

Mr. Metcalfe was an officer of long service and wide experience, having first arrived in India in the year 1857, and he was the highest official but one in Behar. His evidence is justly entitled to weight. But the Commission also took the evidence of Mr. F. M. Halliday, the only officer in Behar of higher rank than Mr. Metcalfe, and of at least equal experience, as he came to India in 1856. Mr. Halliday's evidence is printed in Appendix A and by no means supports the extreme statements made by Mr. Metcalfe.

We are not aware of any good reason why the evidence of Mr. Metcalfe should be held to be conclusive, while that of Mr. Halliday is ignored.

Evidence of Mr. Hudson.

12. The following passage was also quoted by Mr. Smith from the evidence of Mr. Hudson before the Bengal Commission:—

"The upshot of the enquiries I have made among the planters and my personal observations during a residence of 20 years is that drunkenness has greatly increased during the dast few years. I attribute this principally to the fact that 20 years ago, and up to a few years past, it cost a man four annas to get drunk on spirits; now he can make himself dead drunk-this mises as it has been expressed to me by a 'habitual,'—for one anna. Also, whereas it med to be most difficult to get spirits anywhere except at the distilleries, it can now be programed within reach of nearly every hamlets"

We have no doubt that Mr. Hudson gave his evidence in perfect good faith and fully believed everything he stated to be true. But while we admit that there was an increase of drinking at the time to which his evidence refers, though not due solely to the cheaper rate at which liquor could be procured, we are of opinion that a very exaggerated view of the increase was taken by him, and in so far as it is possible to test it by figures, his evidence is not borne out by facts. For example, it is not the case that it used to be most difficult to obtain spirits anywhere except at the distilleries. Liquor is never sold from the central distilleries, but from the shops supplied by these distilleries; and the number of shops in any area under the Central Distillery system is usually greater than when the same area is brought under the Outstill system. In Chumparun, the district with which Mr. Hudson was best acquainted, the number of liquor shops in 1883 was 135. The population of that district was 1,721,608 according to the census of 1881 and the number of villages and hamlets contained in it was 7,762. There was therefore only one shop to 58 villages and hamlets, and to 12,750 of the population. If we consider the adjoining district of Mozusterpur, with which Mr. Hudson, as an indigo planter, was no doubt well acquainted, we find the number of liquor shops to have been 134, the population 2,582,062, and the number of villages and hamlets 5,138. There was thus in Mozusterpur one liquor shop to 38 villages and hamlets, and one liquor shop to a population of 19,270. We are unable to see how, under these circumstances, it could be said that liquor was procurable within reach of nearly every hamlet. The districts of Chumparun and Mozufferpur are comprised in the Division of Behar, and the number of shops for the sale of country liquor in that Division was 2,246 in 1871-72, 1,778 in 1880-81, and 1,417 in 1881-82, while it has never exceeded 1,079 since 1882-83.

18. The evidence of another non-official witness, Mr. H. W. Stevens, by no means bears out the statements of Mr. Metcalfe and Mr. Hudson, though he was intimately acquainted with the tracts of country with which these gentlemen were familiar. His evidence was as follows:—

"I am very well acquainted with the districts of Monghyr, Bhagulpore, Durbhanga, and Mozufferpore. I have been resident in these districts and constantly moving about for the last 20 years. During that time I was constantly employed on various public works, and have had very large gangs of labourers of various descriptions under me.

"I know so far about the working of the Sudder Distillery and Outstill systems that there were more supervision and restriction in the former than in the latter.

"I have no reason to suppose that druking has increased in the above districts during the last ten years, but I do consider that the location of outstills in prominent localities in the neighbourhood of indigo factories and bazars has made drunkenness more apparent.

"I have never known drinking among school-boys. I think there has been an increase of drinking among domestic servants. I judge from my own servants, more especially among syces and outdoor servants, than among the indoor servants. It seems to be more in the districts north of the Ganges than in Monghyr and South Bhagulpors. I do not think that the pure agriculturists drink at all. Day-labourers much prefer tari when they can get it. When they cannot, they drink country spirits. On my quarries near here there are several hundred people amployed. There is no difficulty caused by these people getting drunk, and no complaint on the subject. There is no liquor-shop at any of these quarries. There may be liquor-shops in the adjoining villages for all I know. These people, like all other low-caste labourers; get drunk at the Holi and other festivals. I do not believe that the

[•] Places with a population of 5,000 or more have been taken as towns—there are 16 such in Mozniferpur and 4 in Chumparun. In calculating the number of villages to each shop, we have not strock out the shops in those towns, as the Excise Reports do not show them separately. If it had been possible to do this the results would have been even store unfavourable to Mr. Hadson's allogation.

drunken bouts on these occasions last longer now than they did formerly. I have never seen a drunken woman.

"From my own experience I should say that no caste which did not drink while the Sudder Distillery system was in force has now acquired the habit of drinking. I consider that the increase in drunkenness which I observed among the domestic servants is wholly due to increase of wages. Syces' wages have risen to 50 per cent. during the last 20 years, and the price of food in normal years has not increased.

"The last five years previous to the present one have been years of prosperity in the districts above mentioned; and if there has been any increase in the consumption of liquor in

these years it has been mainly attributable to that prosperity.

There has been a very marked increase during the last four or five years in the expenditure on the marriages of the labouring classes; such expenditure has materially increased the consumption of liquor. Country spirit, and not tari, is mainly drunk on these occasions."

Danger of accepting extreme statements made by particular witnesses in questions connected with drink.

14. In referring to the evidence of Mr. Metcalfe and Mr. Halliday, and of Mr. Hudson and Mr. Stevens, we desire to call attention to the danger of taking isolated portions of evidence, or the evidence of particular persons, as conclusive. India is so vast that nobody can possess a thorough knowledge of more than a comparatively small portion of it; and any one who ma's general assertions on the strength of a few instances which have come his own notice is liable to fall into serious error. There is a special reason faccepting with caution extreme statements made with reference to a que like that of the trafficain drink. Men's minds are in that matter greatly alenced by sentimental considerations, and there is a risk of the judgment being misled by preconceived ideas, especially when statistics are not employed to test loosely-formed opinions. The Bengal Excise Commission made the following remarks in connection with this matter:—

"When a person testifies from his own experience to an increase of drinking among the people of his own village, or among his workpeople, or among any set of people with whom he has had close and intimate relations, and to the extent of such increase, the statement, if made by a competent and unprejudiced observer, may be implicitly relied on; but it is impossible to attach the same weight to a very large number of the statements to be found in the evidence taken by the Commission. A striking instance of this will be found in the evidence taken at Jamalpore, in the Monghyr district, by one of the members of the Commission. Statements were then made, undoubtedly in good faith, by several of the officials employed in the Railway workshops, which statements were afterwards contradicted or seriously modified in an authoritative way."

15. We have no doubt that both Mr. Halliday and Mr. Metcalfe, Mr. Hudson and Mr. Stevens, though differing widely in their evidence, merely gave expression to their genuine convictions. The evidence of these four gentlemen referred to the same portion of India, namely, Behar. Of the two official witnesses, Messrs. Halliday and Metcalfe, it may fairly be said that their experience was equally great. The same remark applies to the non-official witnesses, Messrs. Hudson and Stevens. Stronger evidence could hardly be produced of the danger of relying on the mere opinions of individual witnesses. It is unnecessary to pursue the matter farther, as the conflicting evidence refers to a state of things which, as we have already said, ceased to exist some years ago.

Alleged increase in the number of drunkards.

16. When definite statements such as those relating to the increase in numbers of liquor-shops or the sale of liquor at almost every hamlet are made.

we can at least test their accuracy if we cannot disprove them. But general and indefinite assertions are more difficult to meet. Of this class is the assertion of Mr. Smith that, "whereas ten years ago there were perhaps 10,000,000 of drinkers in India, we have now turned them into 20,000,000." Regarding this statement we must content ourselves with remarking that the figures are, both absolutely and relatively, purely imaginary, rest on no basis of statistics or accurate observation, cannot be tested in any way, and that it would probably be as correct to say that whereas ten years ago there were 20,000,000 of drunkards in India, their numbers have now been reduced to 10,000,000. We entirely disbelieve that the number of drunkards in British India, using the term drunkards in its ordinary acceptation, at all approaches the enormous total of 20,000,000. There has probably been some increase of drinking among the classes that have come under the influence of Western thought. and among those members of the lower classes who have been brought together in large bodies to work in factories and on railways, and who receive much higher wages than formerly, but these classes are after all only a fraction of the total population, and a stricter system of Excise and higher rates of duty have, as the Bombay Government observes, "exercised a most salutary effect in preventing the general drunkenness that formerly prevailed among the lower classes in certain districts." The same Government adds: "The change that has come over the notoriously drunken population of the Thana and Kolaba Collectorates since 1878 is remarkable."

We think it quite possible that the total number of drunkards in India has decreased in recent years, though, of course, an increase of drinking among the numerically small portion of the population in the Presidency towns that has received an English education attracts much more attention than a corresponding decrease among the lower, and more numerous, classes in remote districts.

Alleged untrustworthiness of Official evidence.

17. Mr. Smith also asserted that as regards Excise matters "the efficials are tied to the system, and we can place no more reliance upon their opinions than on the question of the abolition of slavery we could have followed the advice of West India Planters as to the moral effects of the system." With reference to this charge we desire to observe that the officials in India have no pecuniary interest of any kind in encouraging drinking; and that the position of officials in this matter differs, toto colo, from that of the slaveowners who had a personal pecuniary interest in the continuance of the institution of slavery. Even the Local Governments, who are charged with the administration of the Excise Department, have a comparatively small pecuniary interest in the increase of Excise revenue, of which Provincial revenues now receive only one-fourth, the remainder going to the Government of India. The inapplicability of the comparison instituted by Mr. Smith is proved by another portion of his own statement. One of the strongest of the quotations made by him in support of his case was from the evidence of an official, Mr. Metcalfe. It is given in paragraph 11 of this Despatch. Another official, Mr. C. C. Stevens, Magistrate and Collector of the 24-Pergunnahs, stated in evidence before the Commission his belief from the information he could obtain that "drinking had increased among all the classes named in the questions circulated by the Commission except school-boys;" and he strongly condemned the Outstill system, and recommended the re-introduction of the

Contral Distillery system in all but exceptional tracts where the circumstances are such as to render it impossible to work it. We need not multiply instances in which Government officials have recorded opinions against the system with which the pecuniary interests of the Government were supposed to be bound up. But we may state that of the 104 official witnesses examined by the Bengal Excise Commission, 56 gave evidence that drinking had increased under the Outstill system: most of these were of opinion that the increase was due partly or chiefly to the Outstill system: some of them recommended reversion to the Central Distillery system, others the botter regulation of Outstills, while others did not propose any remedy for the evil. Even among those who did not believe that there had been an increase of drinking, some recommended on other grounds that Outstills should be displaced by Central Distilleries. We think that these figures disprove the assertion that our officers can no more be trusted in matters of Excise than could slave-owners in questions connected with slavery.

Alleged failure to carry out the recommendations of the Bengal Commission.

18. Mr. Smith also said: "Now, the Bengal Commission reported in favour of a reversal of the Outstill policy, and an attempt at reversal was made for a year or two; but as the revenue straightway fell off by ten lakhs the Government did not like it, and they gradually reverted to the old system." In this matter Mr. Smith has been misinformed. Since the Report of the Commission of 1883-84 was considered, the Bengal Government has been engaged in carrying out the recommendations of the Commission, as a reference to the yearly Excise Reports would have shown. Long before the date on which Mr. Smith made this statement the Central Distillery had been introduced in supersession of the Outstill system in every one of the places for which the Commission recommended this step, and the measures suggested by the Commission for the better control and regulations of outstills in places in which they considered that these should be maintained were being steadily brought into force. We desire to call special attention to this point, because Mr. Smith's confident assertions as to the Government having failed to carry out the recommendations of the Commission and the motive for its action being a desire to obtain revenue appear to have misled Your Lordship, and in Your Lordship's Despatch No. 67, dated 18th July 1889, it was assumed that the Government of Bengal had wavered in its expressed intention to carry out the recommendations of the Excise Commission in regard to the substitution of central distilleries for outstills, and a hope was expressed that the rate of reform in Bengal would be materially accelerated. The real facts of the case are fully explained in the Bengal letter No. E 34 13, dated 29th November 1889, enclosure No. (5) of this Despatch, and they have already been referred to above in paragraph 5. The Bengal Government is now going much beyond the recommendations of the Commission in the direction of abolishing the Outstill system. It is probable that Mr. Smith's misconception was due to the extension of the Outstill system in 1887-88 to a portion of the Houghly-cum-Howrah district. This measure arose out of a recommendation of the Excise Commission, that two Contral Distilleries in that district should be closed and that the location of a third should be changed. After careful inquiry, and in consideration of the fact that there was strong evidence of smuggling in the tracts affected, the extension of the Outstill system was held to be preferable. The results of this change were investigated very fully in 1888, by an officer, Mr. Westmacott, placed on special

duty for the purpose. The final result was that from 1st April 1889 the Outstill system was again abolished in that district.

19. Apart from the question of the general inaccuracy of Mr. Smith's assertion regarding the action of the Bengal Government, the figures of the Excise Revenue show that there was not a decrease of ten lakks which could by any possibility be due to the adoption of the recommendations of the Excise Commission. The Excise Receipts in Lower Bengal were in—

						Kr.
1893-84					0	1,042,539
1854-85		40,000		1100		1,005,222
1885-96	36 8		A 1011	10		958,469
1886-87			y ar			1.012.588

The Report of the Commission was laid before the Government of Bengal in September 1884. Orders were issued in the following month to carry out some of the recommendations; but as the contracts for the year had been made in the previous March, effect could not be given to those orders till the following year; and the first steps in the direction of substituting Central Distilleries for Outstills had effect from 1st April 1885. Consequently the decrease of revenue of the year 1884-85 as compared with 1883-84 had no connection with the adoption of the recommendations of the Commission. The decrease in 1885-86 was Rx. 46,753, or less than five lakhs. In 1886-87 the revenue again rose above the figure of either of the two previous years, although in that year Central Distilleries were substituted for Outstills in some more districts.

Assertion that there is no risk of illicit distillation.

20. The supporters of the Resolution adopted by the House of Commons attempted to minimise the risk of illicit distillation in India. Mr. Smith remarked that illicit drinking was "a mere bugbear, an excuse to salve the consciences of the British people, an easy way to throw dust in the eyes of inquirers;" and Sir William Harcourt remarked that "illicit distillation generally exists where the sympathy of the people is with drink, and not where it is against it." The following extracts throw light on this portion of the question:—

Extract from a memorandum by the Chief Commissioner of Assam.

"The preparation of rice-beer presents no more difficulty than the infusion of a pot of ten, and has this additional facility that, whereas ten, under the circumstances in which we most know it, is an imported product, which has to be purchased, rice is the staple food of the country, and, being cultivated and stored in large quantities, every Kachari and every Miri has it always at hand. The mode of preparation is to steep rice in water for two or three days, then boil it with certain herbs, which act as a yeast, and the result is beer. It is rarely sold; make person manufacturing his own supply, and borrowing from his neighbour if he falls short".

"It should be noted that the rice-beer is sometimes made to undergo a further process of distillation, and the distillate is called phatika. It is almost as cheaply and simply made as the vice-beer itself: take two carthenware pots; in one of them put the rice-beer, and on the top of it stand the other pot, first knocking a hole in the bottom of it. Stand a saucer on the bottom of the higher pot, and stop the mouth of this pot with a vessel made in the shape of an inverted cone and filled with cold water. Now set the whole thing on a fire. The fumes rise, through the hole, into the apper jar, are condensed against the cold inverted cone, and drop into the saucer in the form of spirits".

"If people want to obtain spirits, they can do so either by getting smuggled spirit from the hills, or by brewing and distilling for themselves by methods with which they are quite familiar, and which are very cheaply and easily available."

Extract from a Minute forwarded by the Government of Bombay.

"When ligit markets for toddy were opened in all directions, and tappers were allowed to take or send their toddy to any shop or distillery they pleased, the transport regulations broke down, and any one who wanted toddy for illicit distillation was able to carry it where he pleased on the plea that he was conveying it to some shop or distillery. How greatly the facilities for illicit distillation were thus increased will be understood when it is remembered that any pot of fermented toddy can be converted into a ready-charged still, and that distillation can be set going anywhere within the space of less than five minutes. All the apparatus necessary, besides the pot of toddy, is an earthen saucer and a little wet earth wherewith to close tightly the mouth of the pot, and a small bowl to be placed floating on the surface of the toddy in the pot. If a pot of fermented toddy thus treated is set to boil, and the saucer closing its mouth is kept cool by pouring water on it, the spirit given off from the bolling foldy in the shape of steam is condensed on the under-side of the caucer, and dripe from the saucer into the bowl floating on the toldy ready to receive it. Two or three bottles of strong spirit can thus be made in a couple of hours from an ordinary sized pot of toddy. Distillation of this kind can be carried on anywhere, in the houses, or in the fields, or in the jungles; wood and water are plentiful in all these coast talukus. It was the custom of the whole country-side to make toddy spirit in this primitive fashion before reforms were taken in hand in 1887-78. In those days such stills were in almost daily use in every village and hamlet of the toddy-producing tracts."

Other passages bearing on this question are quoted in paragraph 70 (4) of this Despatch and in Appendix C. Passages to the same effect will also be found in Appendix L. The extracts quoted at the end of Appendix C show how prevalent illicit distillation is in the Punjab, a province in which the rates of duty are specially high. We would also refer to the experiment in Thana and Kolaba, described in the memorandum printed in Appendix E, as an instance in which the prevalence of illicit distillation, immediately following on an attempted increase in the rates of duty, led to a complete breakdown of the system.

21. There is no room for doubt that illicit distillation prevails in many parts of India, that it is easily carried on, and difficult to detect. The tendency to illicit distillation forms a very real and, at a certain point, an insurmountable obstacle in the way of raising the price of liquor by imposing a heavy duty on it. In some places, the sympathy of the people is distinctly on the side of Micit distillation, and we are not aware of a single instance in which zeal for the cause of temperance has led to the discovery of unlawful practices. In such a matter experience is a safer guide than theory. The Bengal Excise Commission was composed of two Natives of India and two Europeans who had spent the greater portion of their lives in Bengal, and who were intimately acquainted with the country. They visited 27 Bengal districts; personally inspected 216 Outstills and 9 Central Distilleries; and examined 320 witnesses aither orally or by written questions. They had no other duties to perform, and though their inquiry began in November 1893 they did not finish their labours till August 1884. Their report and the record of the evidence and proceedings fill two bulky volumes aggregating 643 quarto pages of closely printed matter. The inquiry and report may fairly be characterized as exhaustive, and we have never heard that the perfect fairness of the inquiry or the impartiality of the members of the Commission has been impugued. One of the members was Babu Krishna Behari Sen, a brother of Babu Keshub Chunder-Sen, referred to in paragraph 7 of this Despatch, himself also a sealous social On the question of the sympathy of the people with illicit distillation this Commission reported unanimously in the following terms:-

"But, as a general rule, illicit spirit was distilled in small quantities and in the inner rooms of the houses or in the jungles. In the latter case, detection could only be the result of

accident. In the former, no matter how active detective officers may be, they can do little unless they are supported by the fellow-villagers of the offenders; but it is notorious that excisemen cannot look for such support or aid. The sympathy of the people is entirely with the illicit distiller and the smuggler, who, as one of the witnesses expressed it, is always sure of his safety, impunity, and the friendship of his neighbours. He is sure that his neighbours will not betray him; and in case he is spotted by an outsider, the neighbours will never turn evidence against him."

Alleged statements of Mr. Lallubhai Gordhandas.

22. In connection with the question of illicit distillation Mr. Caine quoted the authority of an official who is intimately acquainted with the Excise administration of Bombay. Mr. Caine said:—

"Sir David Barbour is wisely silent with regard to Bombay. I will not be silent. WillI was in Bombay I had a visit from Lallubhai Gordhandas, General Assistant in the Abkari
Department. I had a long conversation with that gentleman. I made careful notes of it and
read them over to him with some care, and he admitted that they accurately represented what
he said. His statements were (I quote from my notes): 'Throughout the Presidency there is
no illicit distillation whatever for sale. There may be a little prevalent where there are many
toddy or mowra trees, for private consumption only. We have got Mr. Pritchard's system
well in hand, and illicit distillation is now reduced to a minimum.'"

23. The statement of the official named, with reference to this remark, will be found among the enclosures of the letter from the Government of Bombay, enclosure No. (6) of this Despatch. From that statement it will be seen that Mr. Caine misunderstood what Mr. Lallubhai Gordhandas said: Mr. Lallubhai Gordhandas denies having used the words attributed to him by Mr. Caine regarding illicit distillation: the words he did use bear a very different meaning. Mr. Caine's memory has apparently also deceived him in leading him to say that he showed the notes of the conversation to Mr. Lallubhai Gordhandas, and that the latter admitted that the notes accurately represented what he had said. Mr. Lallubhai explicitly contradicts these assertions. The other enclosures of the Bombay letter furnish abundant proof of the incorrectness of the assertion that "throughout the" (Bombay) "Presidency there is no illicit distillation whatever for sale." Mr. Caine does not appear to have mentioned that Mr. Lallubhai Gordhandas told him that "the charge against the collectors" (of stimulating consumption by opening new shops) "was entirely groundless and opposed to facts"; "that his own observations and enquiry during his recent tours in Gujarat had inclined. him to the opinion that, under the operation of the new abkari system and administration, the habit of liquor-drinking was unquestionably decreasing among the poorer classes and semi-wild tribes," and that he strongly cautioned Mr. Caine "against the fallacy of drawing general conclusions from isolated trets." Mr. Lallubhai Gordhandas's fairness, in the opinion he formed about an increase or decrease in the habit of drinking, is shown by his having stated that "indications of an extension of that habit among some of the middle and upper classes were perceptible," adding "that for this increase the Abkari Department was in no way responsible."

Pallacy of arguments based on increase of revenue in recent years.

24. Throughout the Debate there are frequent references to the increase of Excise Revenue in India in recent years as affording evidence of an increase of consumption. This question also was considered by the Bengal Excise Commission which remarked as follows:—

"Conclusions regarding the increase in the number of consumers drawn from revenue statistics are equally misleading. An increase in revenue in any given district or part of a

district does not necessarily indicate increase either in the amount of spirit consumed or in the number of consumers; and in like manner a decrease in the revenue does not prove that consumption is decreasing. Any improvement in the administration which leads to the taxation of spirit previously consumed free of duty must cause a corresponding increase of revenue without any necessary increase of consumption. Thus since the duty, which, as has been shown in a previous section, used to be divided between the darogans and the distillers, has been recovered by the Government, there has been an increase in the revenue to the extent of the previous frauds, but no increase in consumption. On the other hand, there has been an undoubted and most serious increase in the consumption of spirit of recent years in some places, such as the urban parts of the Patna and Monghyr districts, where the revenue has actually decreased in spite of the increased consumption.

"A consideration of facts like these has convinced the Commission that it would not be safe to accept the revenue figures by themselves as the basis of any calculation."

25. The facts connected with the consumption of ganja in Bengal afford a striking illustration of the danger of assuming that an increase of revenue can safely be taken as proof that consumption has increased. We quote the following passage from the Financial Statement for 1889-90:—

"The following statement shows the number of shops licensed for the sale of ganja, the quantity of ganja consumed, the total revenue, and the incidence of taxation per seer for every year from 1868-69 to 1887-88:—

			Ya	AB.					Number of shops.	Consumption in maunds,	Total tuvenue.	Taxation per sect.
											Rx.	£
1868-69		٠			•				4,073	8,442	89,524	2:6
1069-70		•	•		· (le				4,487	8,967	92,521	3.6
1070-71		•			•		•		4,749	9,683	103,251	2.6
1071-72			٠				•		4,934	9,978	106 275	2-6
1872-73			٠		•	•			4,694	8,593	110,028	8.2
1878-74							4		4,398	8,125	107,785	8.8
1874-75				٠			٠	.	4,394	7,830	105,818	83
1975.96		6						- 1	8,340	7,389	112,035	8.7
1866-77		٠		٠	٠				3,130	7,458	119,711	4-9
1877-7H		•			9				8,247	8,197	138,566	4:2
1878-79									3,244	- 5,460	184,555	6-1
1879-40							•	.	3,210	5,137	129,016	62
1880-81	•		٠						8,411	5,600	145,467	6'4
1891-H2									3,488	6,431	171,879	6.6
1992.83									8,271	5,646	186,080	8.9
1883-84									3,298	6,891	197,871	8.3
1884-85				•				,	8,196	5,798	198,760	90
1885-86				•;	į, a	•	٠		3,033	5,717	104,662	8.5
486-87	٠								8,046	6,264	207,587	8-9 /
887-88									2,949	6.580	224,497	8.8

[&]quot;Notwithstanding the large increase of population which must have taken place between 1868-69 and 1887-88, the number of shops for the sale of ganja has decreased by more than 27 per cent., and the consumption by more than 22 per cent., while simultaneously the revenue has increased by more than 150 per cent., and the incidence of taxation per seer has increased by more than 226 per cent."

^{26.} In the period during which the Excise Revenue has increased there

has been a large increase in other branches of revenue. For example, the Stamp Revenue has increased between 1871-72 and 1888-89 from Rx. 2,476,333 to Rx. 3,927,088, or by about 59 per cent. The increase of Excise Revenue (including for the present purpose the receipts from the duty on imported wine, spirits, and beer), is much greater, being from Rx. 2,605,227 to Rx. 5,253,629, or by about 101 per cent. But the Excise Revenue has increased, not merely by ordinary growth, but also owing to the adoption of stricter systems and the steady raising of the rate of duty whenever it was possible to do so. The duty on imported spirits during the period in question has been raised from H3 per gallon L. P. to H5 L. P., or by 66 per cent, and in Appendix F will be found a statement showing the increases in the rates of duty on country spirit in recent years: the figures there given show that there has been a steadily increasing use of the form of discouragement of drinking which effects its object by increasing the duty and thus raising the price of liquor. The only exceptions are in the case of the North-Western Provinces and Oudh, where it was found necessary to reduce the high rates introduced experimentally on the first introduction of the Central Distillery eystem in 1860-63.

27. A large portion of the increase which has occurred in the Excise Revenue is due to the general prosperity which India has enjoyed for many years. The wage-earning classes have obtained more regular employment on the large works which have been constructed in the last thirty years, and their wages have in many cases been materially increased: the construction of Railways has improved the condition of the lower classes in most parts of India, and they have consequently been in a better position to indulge their taste for drink than they formerly were. It is these classes that chiefly consume country liquor; and in India, as in England, an increase of the Excise Revenue in any year is an indication that the year has been a prosperous one. The following extract from a statement by the Dewan of Mysore will show that similar causes are producing similar results in that State:—

"Excluding, therefore, this increase from consideration, we still find a further and considerable increase common to both arrack and toddy, which we can only attribute to increased consumption. In my opinion, it is the result of prosperous seasons and good crops and of the very great rise in the wages of labour which has taken place within the last few years. With extensive railway works between Gubbi and Harihar, with the large expansion of the gold industry in Kolar, and with public works of all kinds employing large numbers of coolies in every part of the province, the demand for labour has for some time past been far in excess of the supply, and led to the importation of a large miscellaneous class of labourers from outside the province. The high wages earned by labourers of this class, as well as by those of the province, account in my opinion for a great part of the increased consumption of both arrack and toddy."

28. In this connection we desire to refer to the import of spirits into India by sea, the increase in which was alluded to in the Debate as part of the indictment against the policy of the Government of India. In respect of this portion of the liquor traffic no accusation of stimulating consumption by the Outstill or Farming system, or by imposing a minimum guarantee, can be brought against any Province, for no such system is, or ever has been, applied in the case of imported liquor. Such liquor is practically dealt with in the same way as liquor in England, except that the number of shops is very limited. The consumption of imported liquor could therefore only have been stimulated by reducing the rate of duty. The rate of duty has not been reduced, but has, on the contrary, been increased twice within the last twenty years.

29. We give below a table showing the imports of spirit for each year since 1870, the rate of duty per gallon, and the amount of duty realised:—

Importation of 8	pirits into	British	India	by Sea	from	Foreign	Conntries.
------------------	-------------	---------	-------	--------	------	---------	------------

	During							Quantity.	Amount of Customs duty realised.	Kate of duty per gullon of London proc	
								Gallong.	Rx.	*	
1870-71								461,828	184,309	11	
1871-72								671,626	167,417		
1872-73								728.609	184,068	8	
18/8-74	8							608,824	193,261		
1874-75								674,957	215,240		
1875-76								704,874	2:5,667	1	
1876-77			4					654,527	255.128		
1877-78								737,714	275.953		
1878-79								692,384	256,447	1	
1879-80								814,834	821,846		
1880-81		_						848,238	307,905	4	
1881-82								842,739	387,497		
N82-83								949,169	853,624		
1883-84				•				894,420	855,210		
184-85								857,970	844,193		
1885-86								936,484	868,075	11	
886-87	9							1,064,386	429,708)	
887-88					4			1,084,487	462,986	5	
384-89								1,119,367	4H2,854	•	

- 30. It will be seen that in 18 years the rate of duty has been increased by 66 per cent., and that, nevertheless, the quantity consumed has increased by 142 per cent and the revenue by 161 per cent. The fact that the rate of increase of revenue is not proportionate to the increase in quantity and in duty is an indication that the spirits now imported contain on an average less alcohol per gailon than in former years. In quantity of pure alcohol imported the increase is about 50 per cent. The increase of the Excise Revenue proper, i.e., excluding the duty on imported wines, spirits, and beer, between 1870-71 and 1838-89 has been from Rx. 2,374,465 to Rx. 4,705,346, or an increase of 98 per cent., against one of 161 per cent. in the case of imported spirit.
- 31. The figures we have just given show clearly that an increase in the revenue derived from excise or even in the quantity of liquor consumed does not necessarily indicate any relaxation of the restriction on the liquor trade. We have adopted what is admitted to be the most efficacious means of restricting the consumption of imported spirits by imposing a high duty and raising the rate from time to time. The imports have, nevertheless, increased; and the increase has been greater, proportionately, than that of the Excise Revenue proper. We believe that a portion of this increase is due to the higher rates of duty gradually imposed on spirit manufactured in the country which have made it possible for imported spirit to compete in some places with country spirit. If we are correct in this conclusion, there cannot have been any stimulus of the sale of country spirit by reducing the cost at which it may be procured. But apart from that, the point we wish to bring out is that the fact of an increase having taken place in a similar branch of revenue where we have admittedly adopted the best possible means of restricting consumption is sufficient to show that a mere increase in the Excise revenue is not a ground for condemning our Excise administration.

Mr. Caine's statement regarding the increase of consumption of liquor in Bombay.

32. After the passage in his speech quoted in paragraph 22, Mr. Caine proceeded as follows:—

"The system has now been in good working order for ten years, and what are the results? In 1882 the consumption of ardent spirits in the Bombay Presidency was two millions of gallons, and in 1886 it had risen to 2,750,000 gallons, these being the latest available figures. There was thus a tiet increase of 40 per cent. In four years, which means that it would double itself in ten years. We are asked to believe that this increase is due to the change from illicit to licit consumption."

A reference to paragraphs 8 to 16 of the memorandum of the Commissioner of Abkari, appended to the Bombay Government's letter of 6th December, will show that Mr. Caine has exaggerated the increase of consumption of liquor in the period he deals with. His figures do not represent the consumption of ardent spirits in the Bombay Presidency either in 1882 or in 1886. He has, apparently—his figures cannot be traced in the Excise Reports—, compared the consumption of a smaller number of districts at the beginning of the period with that of a large number at the end of it, and thence deduces an increase in consumption of 40 per cent. in four years. It is shown in the memorandum mentioned that, if figures which are rightly comparable are taken, the increase was 10 per cent. only: and it is claimed that of this the larger portion was due to the measures which had reduced smuggling from Native States and illicit distillation. We do not charge Mr. Caine with intentional misrepresentation: his mistake was no doubt made in ignorance, and was due to his imperfect acquaintance with the facts; but we would strongly urge that statements of this sort made in Parliament, where they cannot be contradicted at the time, should not be accepted as evidence sufficient to justify what is practically a vote of censure on the Excise administration of the Government of India.

Mr. Caine's statements in regard to the Revenue from Foreign liquor in Bombay.

83. Mr. Caine next gave figures showing the increase in revenue in the Bombay Presidency from (1) foreign liquors, (2) country spirits, and (3) drugs: he quoted average figures for the five years ending in 1877 and in 1892 and the figures of each year from 1863 to 1888.

The figures given for foreign liquors by Mr. Caine represent merely the fees payable on account of licenses for the retail sale of such liquors, and not the duty, and have only the most remote connection with the quantity of liquor consumed; with this important qualification, the figures are correct. But the increase of Rx. 1,600 in the five years ending 1882, as compared with those ending 1877, is almost entirely accounted for by the fact that in the earlier period the receipts in the city of Bombay averaging Rx. 1,300 were credited to the Municipality, and therefore not included in the Public revenue, whereas those receipts were in all, except the first year of the later period, credited to the Government. Mr. Caine has, therefore, inadvertently shown the increase of revenue at four or five times the real amount.

The omission of the Bombay City receipts in one of the five years ending 1882 vitiates the average of that period for comparison with later years, and there was no appreciable increase up to 1883-84.

After that year there was a considerable rise, correctly stated by Mr. Caine.

There was, however, a reduction in the number of shops from 398 in 1883-84 to 843 in 1884-85, and the increase in revenue was entirely due to a very considerable raising of the license fees for shops. Further comment on such figures, and the use made of them, is unnecessary.

Mr. Caine's statements in regard to Revenue from country spirit in Bombay.

- 34. For country spirits Mr. Caine gives what he states to be the revenue derived from "spirit manufactured at the Government distilleries." His figures are inaccurate, as is shown in the memorandum by the Bombay Commissioner of Abkari. The increase which has occurred in the revenue from the still-head duty on spirits manufactured at the central distilleries in Bombay is mainly due, as stated by the Government of Bombay,—
 - (a) to the extension year by year of the Central Distillery system to districts in which the Farming system had before been in force;
 - (b) to the raising of the rates of duty, of which the Commissioner gives a few striking instances in his memorandum and full details in the appendix; and
 - (c) to the absorption of Native States into the system under the management of the Bombay Excise Department.

Mr. Caine's statement in regard to Revenue from drugs in Bombay.

35. In stating the revenue derived from drugs Mr. Caine has omitted to mention, no doubt because he was ignorant of the fact, that, in the period for which he gives figures, duty on import, export, and transport of drugs was added to the taxation previously imposed. The figures for the different periods are not, therefore, comparable.

Mr. Caine's remarks on the increased consumption of beer.

36. Mr. Caine made the following remarks concerning beer:-

"There was also an increase of 60 per cent, in the imports of malt liquors in the three years. Furthermore, there is, all over India, a steadily increasing manufacture of beer, strong in alcohol, on which no duty is paid. All the increased consumption is Native and not English. The English population is more sober and abstemious than in times past, and its consumption of liquor has certainly not increased. We have now 15,000 tectotallers in the Indian Army, and the evidence goes to show that a decreasing amount of liquor is consumed by our soldiers."

In the above statement there are one or two slight inaccuracies of fact which we need not specially notice, but the statement that no Excise duty is paid is true generally of beer manufactured in British India after the European method.

37. Within the last fifteen years—the manufacture of beer in India is of recent date—the propriety of levying an Excise duty on beer has several times been considered by the Government of India. The conclusion arrived at on each of those occasions was that it was undoubtedly right that a duty equal to that imposed on imported beer should be levied, but that the amount of beer manufactured in India was as yet so small that it was not worth while to undertake legislation for this purpose and to incur the cost of collection: if duty had been payable in 1858 at one anna a gallon, the amount of revenue would only have been Rx. 4,500, and from this must have been deducted the cost of collection. The levy of duty was, therefore, not finally negatived, but postponed until the manufacture of beer in India should assume larger proportions.

[•] Paragraphe 21 and 22, on page 27 of the enclosures.

88. The table below furnishes information regarding the consumption of beer in India since 1877—

						Impour	nd Bana		CONSUMPTION.				
Year.		BERB MANUPAG-			TOTAL.	By Tr							
			TURND IN INDIA.		For general consump- tion.	aumption by Truops.		tadian Beer.	Imported Beer.	By others than Troops.			
					Gallona.	Gallons.º	Gallons.*	Gallons.	Gallona.	Gallons.*	Gallons.		
1877					[2,164,048 1,599,769	1,928,077 1,089,211	8,123,128 1,965,222	6,615,25 3 4,577,202	954,933 869,270	8,123,128 1,165, 222	2,537,192		
1878	a				1,560,036	1,065,347	2,156,325	4,790,098	874,296	2,156 305	1,742, 710 1,762,0 77		
1880					1,974,578	1,152,978	1,695,959	4,823,215	1,394,778	1,695,959	1,424,683		
1881					2,448,711	1,199,395	1,708,596	5,350,702	1,764.927	1,708,506	1,888,170		
883					2,591,667	1,170,534	1,496,234	5,251,455	1,699,914	1,486,234	2,065,307		
1883					2,597 298	1.261,444	1,906,520	5,765,262	2,027,169	1,50%,520	1,881.573		
1884			2	1.4	2,775,680	1.006,913	1,505,062	5,950,655	2,030,499	1,503,1032	1,815,094		
1885					3,150 342	1,299,408	375,396	4,825,146	2.266,501	375,396	2,182,949		
RBS					4,463,638	1.715,639	152,064	6,271,340	3,339,361	152 064	2.779,915		
1887			0		5,085,930	2.158,518	367,764	7,611,880	4,178,658	367,788	3,044,890		
1888					5,852,191	2,399,580	415,616	8,166,587	4,625,175	415,816	3,122,596		

Official years.

39. These figures do not bear out the assertion that the increased consumption of beer "is Native and not English." The consumption of beer by the British troops in India has increased. This is not necessarily inconsistent with Mr. Caine's assertion that the British soldier is more temperate than formerly, as the quantity of beer supplied to the British soldier by the canteens only represents a portion of the total consumption of liquor by the army, and there has been an increase in the number of the troops from 60,000 to 70,000, dating from 1885; there has also been a marked decrease in the consumption of spirits by British soldiers. Moreover, the consumption by the general population, shown in column 8 of the table, is not consumption by Natives of India only; Natives of India as a rule do not drink beer made after the European method, but there is a considerable and increasing European and Eurasian population in India; and increase in the consumption of beer by the general population is almost entirely confined to these classes. The number of Europeans in India was—

In 1871	200						121,147
In 1881		•	•	• .			142,612
					Incre	980	21,462

As the number of British troops was not increased between 1871 and 1881 the whole of this increase occurred among the European general population; and undoubtedly there has been a further increase since 1881 when the last census was taken. The census returns do not show separately the numbers of the Eurasian population; but there is no reason to doubt that this section of the population has also increased. A great part of the increase of consumption of beer must be due to the mere numerical increase in the European and Eurasian population. Mr. Caine's assertion that the whole of the increase in the consumption of beer is due to increased consumption by Natives is, as nearly as may be, the exact opposite of the facts.

40. On a consideration of the figures showing the amount of beer manufactured in India contained in the above table, we some time ago formed the opinion that the production has so increased as to make it worth while to impose an Excise duty. And in our Despatch No. 327, dated 15th October 1889, we proposed the levy of duty at the same rate as is levied on imported beer. Of this Your Lordship has since approved.

Additional liquor shops in Ahmedabad.

- 41. Mr. Caine made a charge regarding the opening of additional shops in the Ahmedabad District in the following words:—
 - "I read in this last report, 1886-87-
- "There were 102 spirit shops in the Ahmedabad district in the year 1884-85. Out of this number 19 shops were closed in the following year for want of custom. But during the year under report it was found necessary to re-open 11 of them.'

"Another paragraph in the same report gives the explanation of this remarkable opera-

tion :-

- the full quantities of spirit removed by him from the distilleries under his minimum guarantee. So to enable him to do so, and keep up the revenue, 11 shops had to be re-opened.' During these four years under review in these paragraphs the spirit issued from the Ahmedabad Distillery to this farmer who required 11 shops to be re-opened was as follows:—48,000 gallons, 57,000 gallons, 63,000 gallons, 69,000 gallons. The maximum of revenue is undoubtedly secured, the minimum of consumption is secured by an increase from 48,000 to 69,000 gallons, an increase of 45 per cent. in four years."
- 42. The reason why so large a number of shops as 102 was allowed in Ahmedabad was that a part of the district interlaces with territory belonging to the Gaikwar of Baroda (the Chief who is said to have expressed to Mr. Caine his wish to enforce total prohibition if he were permitted), and that in the Gaikwar's territory the facilities for obtaining liquor were greater and the price of liquor much lower than in Ahmedabad; in consequence it was necessary to allow an unusually large number of shops with the view of preventing smuggling from the foreign territory. The facilities for obtaining smuggled liquor were, however, so great that the farmer gave up for a time the attempt to compete with the Baroda farmers, and asked that nineteen of the shops should be closed, hoping that the negociations then in contemplation for the introduction of a stricter system in the Gaikwar's territory would put an end to the illicit practices. As these negociations were prolonged the farmer asked that eleven of the shops might be re-opened in order that he might recover a portion of the custom in British territory which he had been compelled to relinquish to his rivals in Baroda. This was allowed. But when, in July 1889, the negociations with Baroda were brought to a successful issue, these eleven shops were again closed.

Alleged increase of shops in the North-Western Provinces and Oudh.

- 43. After referring to the increase of shops in Ahmedabad, Mr. Caine proceeded to make similar charges regarding several districts in the North-Western Provinces and Oudh, and quoted extracts from the Excise Reports of that Province. The Government of the North-Western Provinces and Oudh, in the letter which is appended to this Despatch, enclosure No. (12), deals in succession with each of those charges. We need not refer to them in detail; but merely remark that in our opinion it is shewn that if Mr. Caine had referred to the context of the reports from which he culled his passages, if he had even quoted in full all those he selected, and if he had stated the explanations of the various facts he brings to notice contained in the reports and in the orders of the Board of Revenue and the Local Government on them, the facts would have borne a different complexion from that which he put upon them.
- 44. The "standard "number of shops in proportion to population, mentioned in Mr. Caine's quotations, was laid down only as algeneral standard for comparison to assist Collectors in determining the appropriate number of shops

for their districts, because it had been found that the proportion of shops in different districts varied in a manner which appeared to be capricious. This standard had for its object, wherever it was to be used with the effect of increasing the number of shops, the displacing of illicit by licit consumption; and it was applied as frequently to the reduction of the number of shops as to their increase. The real facts are obvious from the Excise Reports and the orders passed by Government thereon.

We reproduce here the remarks of the North-Western Provinces Government on one of Mr. Caine's quotations, in which the standard number of shops was mentioned:—

"The passage referred to is paragraph 32 of the Report of the Commissioner of Excise for 1885-86, which runs as follows (the italics are not in the report):—

"'Etawah.—The number of shops has increased from 53 to 67. There are 5 shops in the Municipality which are reported to be sufficient. In the village tracts the number is still far below the Government standard; there is only one shop to 10,368 of population, or one in 23.6 square miles. Efforts are being made to bring the number of shops up to the prescribed standard. Besides the 67 shops now opened, licenses were granted for others; but they were withdrawn when it was found that no liquor was sold at these shops.'

"Here, again, the words 'there is only one shop to 10,368 of population, or one in 23.6 square miles' have been omitted, with an object, obviously, similar to that which led to the omission of the words indicated in the preceding paragraph. A maximum standard having been prescribed by the Government with the object of adopting precautions against the consumption of unexcised liquor, the intention in this passage was to explain how and why this standard was not worked up to. The aim of the writer was not to draw the attention of the Government to the fact that he had increased the number of shops; but to explain that, although he had increased them, the circumstances of the district do not admit of the adoption of a standard prescribing a higher maximum as a safe guide. Incidentally he discloses, what Mr. Caine was careful to conceal from the Heuse, that there is one shop only to more than 10,000 persons, and to every 23.6 square miles. From paragraph 15 of this letter will be seen more fully what are the circumstances of the district."

Since 1883-84 the number of shops for the sale of distilled liquor of all kinds in the North-Western Provinces and Oudh has been reduced by 1,523. This is conclusive proof that in recent years there has been no attempt to unduly increase the number of shops.

The liquor shop in Backergunge.

45. Mr. Caine in his speech during the Debate made a charge against the uthorities of a district in Bengal in the following words:—

"In the district of Backergunge, in Bengal, a religious fair is held every year. For some years past a liquor shop has been established there. The agent of one of the excellent and useful associations which are springing up all over India, watching the actions of Government, called upon the zemindar who owned the land and urged him to refuse to supply land for the liquor-shops any longer. He refused accordingly: but the Collector, Mr. Clay, of Backer-gunge, dropped on the zemindar at once, and wrote to him asking for an explanation. The zemindar called and explained, and two more letters followed, both of which I will read: the first is addressed to Chunder Dass, farmer of corn, spirit, and drugs, Lakutia:—

"'In accordance with the order of the Collector passed to-day, you are directed to open your shop as usual at the aforesaid mêla. A copy of this order is sent to the proprietors of that mêla, so that they may present to the Collector any objection, if they have any, to the opening of the aforesaid shop at the mêla...G. C. Dutt, Excise Deputy Collector.'

"The same gentleman, a Mr. Dutt, writes to Baboo Behari Lal Roy and two other zemindars-

up a shop for the sale of wines, ganja, and opium at your Lakutia mela, and you did not allow him place to open his shop then, an order was issued on him to open his shop, and a copy of that order served on you that you may present to the Collector your objections, if you have any, to give him land for this purpose. Up to this day you have presented no objection and

given him no land for his shop. You are ordered to show cause before the Collector within

two days why that shop should not be set up at your môla."

"What does this mean? These men are anxious to have their religious festival conducted decently and in order, and this Revenue official comes down upon them like a thousand of bricks, because of the shop not being opened. Just suppose for one moment a similar case in England."

The inference to be drawn from this statement is that undue pressure was put on the zemindar to induce him to give a site for a liquor-shop.

46. We will state the real facts of the case in connection with this shop. A fair is held every year in November at Lakutia. This fair is not a religious fair in any proper sense of the term. Like most, if not all, of the great fairs of India, it is held at the time of a religious festival, but is practically a fair for secular purposes. For more than twenty years a shop for the sale of liquor had been each year opened at the fair. Neither the proprietors nor any one else had ever raised any objection to the opening of the shop till 1888; no complaint was ever made of drunkenness at the fair, and the proprietors had always willingly granted a site for the shop. In November 1888 the right to open the shop was sold in ordinary course. When the purchaser went to open the shop a site was refused him and he reported this to the Deputy Collector. This was the first information the Excise authorities had of the change of view of the proprietors. As the reason of the change was not known a courteous letter was written on the 19th November by the Deputy Collector to the proprietors. Of that letter Mr. Caine has given a translation: the following is a full and exact translation, from which it will be seen that the tone of it is very different from what Mr. Caine believed it to be.

"To the Hon'ble Rakhal Chandra Ray, the Hon'ble Behari Lal Ray, and the Hon'ble Pyari Lal Ray Choudhuri—As a man, by name Purno Chandra Das, has taken the acttlement at fees 175 of the ganja, oppum, and spirit shops in your Honors' Lakutia fair, and as your Honors have not given him a site for the shop, an order (or permission) was given him for opening the shop, and a copy of the order (or permission) was sent to your Honors, so that your Honors might represent before the Collector any objection you have to granting a site, but up to the present your Honors have not represented any objection. Therefore it is now written (not ordered) to your Honors that you may within two days represent to the Collector the reason why the shop should not be opened."

When that letter was written by the Deputy Collector, the Collector had no knowledge of the fact that an objection had been raised to the opening of the shop. Mr. Caine was misinformed when he said that the letter quoted was written after the Collector's correspondence and interviews with the proprietor. The next day the proprietor wrote to the Collector that in order to check drunkenness he was not inclined to allow a liquor-shop to be opened at the fair. The Collector inquired why objection was raised then for the first time, as there had been none in former years. The proprietor on the 21st November wrote explaining his reasons at length. On receipt of his letter the Collector gave instructions that the shop should not be opened; and the shop was not opened.

47. This incident is a striking illustration of the disadvantage at which the Government of India is placed when its policy is discussed in England. The inaccurate version of the facts which was furnished by Mr. Caine was no doubt accepted as correct in the House of Commons. The true facts cannot be made known till this Despatch reaches Your Lordship.

The Opium shop in Lucknow.

opium shop in Lucknow was quoted. We accept Mr. Caine's words as a substantially correct, though highly coloured, description of what he saw; and we regret, as much as Mr. Caine and Mr. Smith, that the habits of any class of the people, however small, should be such as to lead to what Mr. Caine saw. The women whom Mr. Caine saw would be persons who were, or had been, leading a life of open immorality, and we believe that if the haunts of the dregs of the population in any great city are examined scenes of vice, misery, and excess will be found, and that Lucknow is not an exception to the general rule. We have done what we believed to be practicable and expedient in the direction of discouraging the smoking of opium and its preparations by imposing a heavy duty on it, and by reducing the number of shops licensed for smoking. The papers forwarded by the North-Western Provinces Government, enclosure No. (13) of this Despatch, show that the habit of opium-smoking was much more prevalent in Lucknow in the time of the Kings of Oudh than it is now. The number of shops licensed for opium-smoking has been steadily and persistently reduced till the number is now as low as is consistent with refraining from attempting the impossible task of absolutely preventing the smoking of opium. The number of shops for opium-smoking in the Lucknow District was -

In	1870						50
	1874						20
12	1643	•				•	12
20	1885			•	4		G
0.0	1887						3
	1890						2

Alleged wish of the Guikwar of Baroda to prohibit the consumption of liquor.

49. In his speech Sir John Gorst remarked that there was not a single Native State where total prohibition is effected or indeed attempted to be carried out; and Mr. Caine thereon interpolated: "The Gaikwar of Baroda would do so to-morrow if he were permitted. He told me so."

We cannot, of course, say what the Gaikwar's personal wishes may be until he has directly or indirectly indicated them to us. But in the records of our Foreign Department there is nothing to show that the Gaikwar has ever shown any desire to abolish the liquor shops in his territory; and we have ascertained from the Resident at Baroda that the Durbar has never expressed a desire to adopt measures of total prohibition in respect of the liquor trade in the Baroda State.

50. That the wishes of the Gaikwar, as stated to Mr. Caine, if the statement was not merely a form of politeness misunderstood by Mr. Caine, were of very recent origin, our knowledge of the history of the Excise arrangements in Baroda proves conclusively. The Bombay Government in introducing the reforms of the last ten or twelve years—which may be generally described as the abolition of the Farming system, the introduction in its stead of a system under which a fixed duty is levied on each gallon of liquor, and the increase of the price of liquor by raising, from time to time, the rate of duty, coupled with strong preventive measures against illicit distillation and sale—encountered more difficulty in Gujarat than in any other part of the Presidency. In Gujarat British territory is surrounded by and interlaced with Native States,—the largest and most important of which is Baroda—the Excise arrangements of which rendered it impossible to

enforce a stricter system in our territory with the same measure of success as elsewhere. The system which up to 1887 prevailed in Baroda, the ruler of which is said to have expressed to Mr. Caine his desire to enforce absolute prohibition, was that referred to by Rao Bahadur Lallubhai Gordhandas as "the old detestable Farming system" in the extract from his report given in paragraph 72 of this Despatch. Some of the results of that system were the sale of liquor in Baroda at much lower prices than in adjoining British territory, constant smuggling from Baroda, frequent affrays between the smugglers and the British preventive officers, and the demoralization of the people on both sides of the border by the facilities furnished by Baroda for obtaining cheap liquor. It was only with the greatest difficulty, and after invoking the help of the Government of India, that the Government of Bombay induced the Baroda Darbar to modify these faulty Excise arrangements. In 1887 the Baroda State did consent to introduce a stricter system, the agreement made with it providing for the introduction of the Central Distillery system in a portion of the State, and elsewhere, for the maintenance of a narrow belt of land extending to two miles on each side of the border, in which shops and sales should be entirely prohibited. These arrangements are being carried out, but difficulties are still encountered in securing the co-operation of the Gaikwar's Government in measures which have for their object the enhancement of price and restriction of consumption of liquor.

51. The extract given in Appendix K from a memorandum by Rao Bahadur Lallubhai Gordhandas shows that judged by every possible test which can be reduced to figures—the proportion of shops to area and to population, and the consumption of liquor per head,—the facilities for drinking and the amount of drinking are very much greater in Baroda Territory than in the adjoining British Districts. It is also shown that there has recently been a larger proportionate increase of revenue in Baroda.

52. We therefore maintain that if the wishes of the Gaikwar are what Mr. Caine supposes them to be, he has, at any rate, not shown any sign of desiring to give effect to them; the actions of the Baroda State, so far from indicating a desire for total prohibition, throw obstacles in the way of increasing such restrictions as are practically possible, and greater facilities for drinking are afforded in the Gaikwar's territory than are allowed in the British Districts. Within the last few months the Government of Bombay has officially appealed to us to exercise the authority of the Government of India by compelling the Gaikwar of Baroda to withdraw his refusal to raise the duty on spirit and increase the selling price of liquor. The case is still under consideration.

of the Bombay Government that the rates of duty should be raised was that the measure "would compel liquor consumers to resort to illicit distillation, which could not be checked except by largely increasing preventive establishment at heavy cost to their Government." This objection was raised in August 1889, and subsequent to the date on which Mr. Caine had his conversation with the Gaikwar, and certainly affords no indication of an intention to prohibit liquor altogether, a course which would lead to still greater loss of revenue and to heavier expenditure on prevention.

The Excise system of Bengal.

54. Mr. Caine said :- "The worst and rottenest Excise system in the

civilised world is that of India; the worst and rottenest of the various systems of India is that of Bengal." We have already explained the circumstances under which, owing to the growth of illicit distillation under the Central Distillery system, Outstills were, after 1877, extensively re-introduced throughout Bengal. We have admitted that the change was made without sufficient discrimination, and that, coupled with the removal of the restriction on the capacity of Outstills, it led to an increase of drinking. As soon, however, as experience had shown that this was the case, steps were taken to remedy the evil, and there are the strongest grounds for holding that in recent years drinking has decreased and not increased.

55. We shall now give a few figures to show that the Bengal system does not now, and never did, merit the indiscriminate condemnation which Mr. Caine has applied to it.

The number of shops for the sale of all kinds of liquor and drugs in Bengal is shown in the following table for each year since 1870:—

	Yea	IT.		Distilled liquor.	Druge.	Tari.	Pachwai.	
1870-71	4			8,193	15,565	21,670	1,687	
1871-72	,			8,937	16,615	21,689	1,815	
1872-73				7,271	17,119	22,351	1,844	
1878-74				6,812	10,975	22,573	2,000	
1874-75			**	6,152	9,240	19,424	1,868	
1875-76				5,294	7,424	19,265	1,661	
1876-77				5,183	7,092	15,844	1,677	
1877-78		ø		5,267	7,216	19,077	1.717	
1878-79	6			6,751	6,999	19,048	1,739	
1879-80		0		6,878	6,877	21,579	2,066	
1550-81				7,869	7,145	25,563	2,084	
1851-82				6,874	6,796	30,268	2,185	
1842-58				5,634	6,499	30,311	2,159	
1583-84				5,740	6,513	20,138	2,259	
1 584-85				5,502	6,291	19,577	2,169	
855-86		0		5.248	6,005	19,555	2,169	
1886-87				5,310	5,922	19,471	2,19	
1587-88	•			5,112	6,059	19,051	2,157	
1888-89				4,539	6,092	18,467	2,20	

It will be observed that since 1870-71 the number of shops for the sale of distilled liquor has been reduced by 3,654, or more than 44 per cent.; the number of shops for the sale of drugs has been reduced by 9,473, or more than 60 per cent.; the number of shops for the sale of tari has been reduced by 3,203, or more than 10 per cent.; the number of shops for the sale of pachwai, or rice-beer, has been increased by 516, or more than 23 per cent.

Tari and pachwai are comparatively weak and harmless liquors.

56. Some difficulty is experienced in giving the rates of duty on spirit for different years in a form suitable for comparison, as there is no uniform rate for the whole Province and there have been frequent changes of system, the Central Distillery system and the Outstill system frequently replacing one another. The course of these changes is explained in Appendix H. We shall, therefore, merely attempt to give an outline of the nature of the changes in the rate of duty.

57. The Central Distillery system was introduced into the cleven districts in Bengal comprising the Burdwan and Presidency Divisions in 1861-62; it was extended to sixteen other districts in 1862-63, and to seven more in 1864-65.

In the Burdwan and Presidency Divisions the duty was levied at the

uniform rate of R2-4 a gallon. But it was not found possible to evy the same high rate of duty in the districts in which the Central Distillery system was introduced in 1862-63 and 1863-64; and it was also found impracticable to enforce a uniform rate: while the rate of R2-4 was generally maintained in the Burdwan and Presidency Divisions, and even subsequently increased in many places, in other districts lower varying rates were imposed.

It will be seen from Appendix F that the general tendency was to increase from time to time the rate in all districts. The rates in the Presidency and Burdwan Divisions were doubled in some districts, and more than doubled in others.

In most districts of the Rajshahye Division the rates were also doubled. The same remark applies to the Bhagulpore, Patna, and Orissa Divisions, while the duty has been considerably increased in all districts of the Chota Nagpore Division.

There are three distinct periods in Excise administration in Bengal since 1860, namely, (1) the introduction of the Central Distillery system, (2) the reversion to the Outstill system in the years after 1877, (3) the reversion again in many places to the Central Distillery system in 1885-86 and following years. Up to the time of the abolition of the Central Distillery system the general tendency was towards an increase in the rates of duty, and when the Central Distillery system was re-introduced in 1885-86 the high rates previously levied were again imposed. The highest rate of duty is now R5 as compared with R2-4 in 1861, an increase of more than 120 per cent.

59. During the same period the rate of duty on ganja has been continuously raised from R2-6 per seer in 1870-71 to RS-5 in the present year. Ganja is a drug which is far more injurious in its effects than spirit or than any other drug commonly consumed.

59. The rate of duty on opium varies in different districts. In 1870-71 the selling price was as follows:—

R16 per seer in seven districts; R19 in one; R20 in two; and R22 in thirty-three.

At the present time the rates are: -

R16 per seer in seven districts;
R20 in one;
R22 in one, and in part of another;
R24 in one, and in the remaining part of that just mentioned;
R26 in four;
R27 in five;
R28 in twenty-one;
R30 in one; and
R32 in three.

As the cost of producing opium is about R7 a seer, a rise in price from R22 to R32 represents an increase in duty of nearly 80 per cent.

60. The Chief Commissionership of Assam was formerly a portion of Bengal. It was separated from that Province in 1874, and the figures of number of shops and duty just given refer only to the present Province of Bengal. It will, however, be convenient to indicate in this place what the policy of Government has been in regard to the consumption of opium in Assam, because that policy was initiated by the Government of Bengal. Assam was acquired between 1826 and 1854. The poppy was extensively cultivated in it, and

the population, which was remarkable for its indolence, largely consumed opium. It may be that the excessive dampness and malaria which prevail in Assam make the consumption of opium beneficial in some respects, but the Government of India believed that the extent to which opium was consumed was injurious, and that it would be possible to restrict consumption. The cultivation of opium was consequently prohibited in Assam in 1860, before the Province was separated from Bengal, while the number of shops was gradually reduced and the rates of duty raised.

61. The following figures give the number of shops in Assam for the sale of opium every year since 1868-69:—

1863-69											4,501
1869.70											4,556
1870-71		•									4,469
1871-72	0		0								4,567
1872-78											5,070
1873-74			0								3,977
1874-75	•							·	-		3,151
1875-76									۰	•	2,838
1876-77									•	•	1,271
1577-78											1,342
1878-79							(4	•	•		1,367
1879-80							*			9	1,397
1880-81						•	•	•		۰	1,404
1881-82								4	•		1,373
1882-88						•	i	•	•	۰	
1883-54							•	•	•	•	1,288
1884-85				_	•		•			•	1,250
1885-86	-		•		• .		4 .	•		•	1,175
1886.87	•	•	•				0				1,087
1887-88	•	•	•		•					•	999
1888-89	•	•	4	•	•	•		•	•	•	1,087
1000-00	•		•		•	•		•		•	888

The number of shops has been reduced from 4,501 to 989, or by more than 78 per cent. During the same period the selling price of opium has been increased from R14 per seer to R32 per seer, representing an increase in duty of 257 per cent.

62. These stringent measures have not been without success, as, in the Chief Commissioner's Resolution on the Excise Report for 1888-89, it was said:—

"The consumption of opium and the revenue obtained from it have been very steady during the last few years. So far as revenue is concerned, it is the consumption of this drag in the districts of the Assam Valley which brings us three-fifths of the whole Excise revenue of the Province; and seeing that for some years past we have practically obtained the same revenue from the same consumption with apparently very little, if any, smuggling, it would seem that the time has come to raise the question whether the price at the treasury, which has been for some years at its present figure, might not now be increased. It is believed that the habit of opium consumption is becoming less inveterate among the indigenous Assamese, and that the generation now growing up will not be habitual consumers to the same extent as their fathers."

63. With the exception of the extension of the Outstill system, and removal of the restriction on the capacity of stills, which led to an increase of drinking between 1877 and 1834, we consider that the management of the Excise Department in Bengal has been very satisfactory, and we are wholly unable to reconcile the figures for number of shops and rates of duty which we have given with the terms of Mr. Smith's motion that "the fiscal system of the Government of India leads to the establishment of spirit distilleries, liquor and opium shops in large numbers of places where till

recently they never existed, in defiance of Native opinion and the protests of the inhabitants, and that such increased facilities for drinking produce a steadily increasing consumption, and spread ruin and misery among the industrial classes of India," or with Mr. Caine's assertion that "the worst and rottenest Excise system in the civilised world is that of India; the worst and rottenest of the various systems of India is that of Bengal."

Outstills at Tea Gardens.

61. There is one important statement made by Mr. Smith with which we are not in a position to deal fully at present. We refer to the quotation given from a letter received from a Tea plantation. The Excise question in connection with the coolies on Tea plantations is an extremely difficult The coolies generally belong to a class which habitually consumes liquor; they have removed from their native country and are employed in a damp, malarious, and unhealthy climate. Under such circumstances their desire for drink is strong, and the facilities for obtaining illicit liquor in the neighbourhood of the gardens are very great. The whole question connected with the liquor question in relation to Tea gardens is being thoroughly inquired into in Bengal and Assam, and when the inquiries are completed, we shall specially address Your Lordship on the subject. In the meantime we may remark that so far as the evidence before us goes, the statements made in the letter quoted by Mr. Smith appear to be greatly exaggerated. The reports on the subject which we have as yet received relate to Assam, and will be found as enclosures Nos. (18) and (19) of this Despatch.

SECTION II.—EXCISE SYSTEMS IN FORCE IN BRITISH INDIA.

65. We shall now attempt to explain the difficulties encountered in this country in dealing with the Excise question, and to set forth the systems adopted with the object of meeting these difficulties.

In Appendix G will be found a memorandum giving a brief description of the various systems of Excise which are in force at the present day in British India. In this memorandum we have grouped together the systems in different provinces which have the same main features in common, although they may be known by different names, and although the system in one province may have bad a very different origin and history from that which it has had in another. The remarks in the memorandum apply only to systems for the levy of a duty on spirits manufactured in India. The system applied to foreign imported liquor is practically the same in all provinces. Imported wines and spirits pay the customs duty leviable under the Tariff Act, and licenses for their sale are granted by the several Local Governments, usually on the payment of a fixed fee for the year.

A sketch of the history of Excise in each of the five chief Provinces will also be found in Appendix H.

Impossibility of adopting a uniform system of Excise.

66. The system of Excise which we should adopt universally, if it were possible, is one under which a fixed duty would be levied on each gallon of spirit in proportion to alcoholic strength; this system has been approved for many years both by the Government of India and by the various Local Governments. It is known in its simplest form as the Central Distillery system, because under it all liquor is distilled at a public distillery, centrally situated

with reference to the tract to be supplied, and watched by a preventive establishment appointed by Government. No liquor is allowed to leave the Central Distillery until the duty has been paid.

- 67. The history of Excise Administration in India given in Appendix H will show that the line of progress has been from the Farming system, which we inherited from the Native States which preceded British rule, towards a system under which each gallon of spirit pays a fixed duty.
- 68. The earliest system was that of uncontrolled farming; the farmer paid a lump sum for the right to manufacture and sell liquor in a specified tract of country; there was no limit as to number of shops, and he made what profit he could out of his farm. The next step was the limitation of the number of shops. A further step was the establishment of the Outstill, under which only the right to manufacture and sell at a specified shop is granted. The chief objection both to the Farming and Outstill systems, as just described, is that there is no control over the rate of duty per gallon, and, consequently, it may be to the interest of the farmer or licensee to steadily lower prices. It then becomes necessary to consider whether an attempt can be successfully made to establish a system under which each gallon of spirits shall pay a fixed duty. This may be done roughly and imperfectly by limiting the capacity of the Outstill and fixing a minimum rate of duty for the right to work the Outstill. If the Outstill can only produce a certain number of gallons of spirit in the month and must pay a certain tax every month, we know that each gallon of spirit will hear, at least, a certain rate of duty and cannot be sold below a certain price. The practical difficulty in the way of securing this result is the facility which the licensee possesses for distilling in a still other than that which has been licensed. This difficulty is in some cases insuperable. A perfect remedy lies in the establishment of a Central Distillery system, but unfortunately the practical experience of years, and the results of many experiments, have shown that it is impossible to maintain this system in all parts of India.
- 69. Under the Farming and Outstill systems the interest of the monopolist is enlisted for the suppression of illicit distillation, and sources of information and means of detection are available to him which are not accessible to officials. This is not the case under the ordinary Central Distillery system. Under that system it is to the interest of the distiller both to distil illicitly outside the distillery and to smuggle liquor out of the distillery without payment of duty. The shop-keeper and the subordinate officials share the profit. Thus it was proved in the course of a judicial enquiry in the Gya District of Bengal that out of the spirit made at one outlying distillery only one gallon out of three paid duty to Government, the duty on the second being retained by the preventive officer, who allowed the distiller to take out every third gallon free.

The key to the numerous and complicated systems of Excise which prevail in different parts of British India lies in the fact that they are attempts to combine the monopoly and fixed duty systems with the object of securing that every gallon of spirit shall bear a certain rate of duty in places where it is not possible to work the fixed duty system in its simplest form.

Unsuitability of the Central Distillery System for portions of India.

- 70. We will now state some of the chief reasons which render the Central Distillery system unsuitable in many parts of India.
 - (1) Where the quantity of liquor consumed is small, the cost of a central

distillery and of an establishment to guard it, and to prevent outside distillation, is prohibitive.

(2) It is found impossible, on the scale of pay which we are able to give, to obtain for those establishments men who are thoroughly trustworthy. In remote tracts where supervision is insufficient they enter into collusion with the distillers and defraud the Government. The Excise Reports abound with statements to the effect that a large portion of the liquor distilled in central distilleries was passed out for consumption free of duty. In places where such establishments and the police are entrusted with powers to detect and prevent illicit distillation, and where the inducements to resort to that practice are great, still more serious evils too often result. The nature of these evils is explained in the following extract from the Report of the Bengal Excise Commission :-

"One, and in the opinion of the Commission the main, reason of this" is not far to reek.

The sympathy of the people with illicit practices of their unwillingness to assist the officers of Government in detecting them. ing the powers given by law to a perilous extent The most formidable and and too often, it is to be feared, to their abusing those powers. unpopular of these is the power of search. When it is considered that, as mentioned above, illicit distillation is most frequently carried on in the inner rooms of houses, it will easily be understood how hateful a zealous detective officer must be to the people of a village, and how formidable his power of oppression and extortion. It is not too much to assert that the evils and dangers almost inseparable from all attempts to put down the illicit manufacture of country spirit by direct preventive measures are as grave as those entailed by the prevalence of the unlawful practice, and the Commission consider that this is a most important factor in the Excise problem. They wish to direct special attention to the subject here, as many of the witnesses who appeared before them seemed to think that the suppression of illicit distillation is merely a question of employing a sufficiently strong detective establishment, and to have overlooked completely the danger of such a force becoming an engine of oppression, worry and extortion more formidable and dangerous to the innocent than to the offenders, particularly in outlying and jungly places, where the supervision of trustworthy superiors would almost necessarily be wanting, and where, owing to the great probability of the existence of illicit prectices, the excisemen would have most opportunities to harass and oppress unoffending people. Colonel Dalton, in a report from which an extract has already been made, stated that there was nothing which had set him so much against the Central Distillery system as the number of persons he had lately seen undergoing imprisonment in the common jail for offences against the Excise laws. This consideration appears very much more grave when it is realised that the numbers of offenders actually convicted were in all probability very few in proportion to the number of innocent people who had been worried and harassed in the process of hunting out the breaches of the law. It must never be forgotten that all attempts to limit the consumption of spirit by over-stringent Excise measures must have a tendency to lead to illigit practices; that the same considerations which lead to the restriction of licit consumption make it necessary to take further measures to prevent such illimit practices; and that there is in this a constant source and most serious danger to innocent people. All this, of course, is not an argument against the attempt to regulate consumption, but it proves the necessity of always proceeding in a cautious and tentative manner.'

- (3) Another reason is defective means of communication. Many parts of India are at all times difficult of access, and during the rainy season many more are practically entirely shut off from communication with neighbouring places. In such tracts unless the inhabitants are to be entirely deprived of liquor-a deprivation to which they would not submit, and against which the facilities for illicit distillation furnish them with a powerful protection—it is necessary that the liquor should be distilled on the spot, communication with the Central Distillery being frequently interrupted.
- (1) The difficulty of preventing illicit distillation is very great. We have already dealt with this question in paragraphs 20 to 28 and need not say anything

more in this place beyond quoting, from a memorandum by the Chief Commissioner of Assam, passages which show that the circumstances of a tract so considerable as the Province of Assam are such as to render impossible the introduction not only of the Central Distillery system, but of any system which involves the direct control of distillation. In nearly the whole of Assam we must be content with enforcing direct restrictions on the sale of spirit, sale to the public being a transaction which cannot be altogether concealed, while distillation may be carried on in secret without fear of detection:—

"12. Now let us look for a moment at the means we have of controlling and restricting the manufacture and use of liquor among the population, that is, the means we have of enforcing any prohibition that we may choose to issue.

"First of all, to what extent may the country itself be considered open or accessible? The following are the statistics:

TIP MED ATTO ME	,0001000							Settled and	Forest and
Districts.								oultivated,	uncultivated.
								Acres.	Acres.
. Goalpara (a)								72,0×10	938,000
Kamrup .	+ *				0			688,(%4)	1,635,000
Darrang .								362,000	1,826,000
Nowgong .								318,000	1,767,000
Sibsagar .	0			٠	4			609,000	1,217,000
Lakhimpur		6	0					279,000	2,104,000
					To	TAL	0	2,328,000	9,487,000

(a) Excluding the permanently-cettled portion

"In short, about four-fifths of the area is covered either with tree or with grass jungle. And this jungle is not confined to one part of the district, but is scattered all through it. The cultivation, in short, is in patches, reclaimed here and there from jungle (and often falling back into it), and, except in some parts of Kamrup, none of it is really far from jungle.

"13. Moreover, the Assum village is not, like the village in Bengal or in Northern India, an aggregation of houses in a single part of the village area, where every man lives within bail of his neighbour. The Assumese loves to bury himself in the privacy of his own domain, and his house is separated from his neighbours by a belt of trees or of bushes. It remains to note that, according to the Census of 1881, the average number of houses to the square mile 18, and of persons 105.

"14. These, therefore, are the circumstances with which we have to deal,—a sparse population scattered over a country of which four-fifths is jungle, in which every villager surrounds his house with high vegetation, and has nowhere very far to go if he wants to hide himself away altogether from human sight. The drinking classes among them, familiar with the methods of brewing and distilling, continually possessing the materials at hand, and nowhere more than twenty miles distant from places where every householder has for ages brewed or distilled his own liquor and consumed it as regularly as he cats his food. Where is the means under such circumstances of prohibiting or even restraining any man who wants to drink? It seems to me that the most efficient preventive service in the world would find it difficult to attain any success; and unfortunately we have hardly any expectation of finding any but a most inefficient service. We can under present circumstances use the police only, that is to say, looking to the number of policemen available for district duties, one man for every thirty or forty square miles: and as the higher officers of the police belong to a large extent to foreign races, the force is less efficient on this account.

"15. It follows from all this that it is hopeless to establish in the Assam Valley districts any system of Excise administration which in any degree depends upon our ability to prevent or detect illicit distillation. If people want to obtain spirits, they can do so either by getting amuggled spirit from the hills, or by brewing and distilling for themselves by methods with which they are quite familiar, and which are very cheaply and easily available.

"19. The result of all these considerations is that over nearly the whole of Assam only one method of taxing liquor is open to us, vis., that of licensing individual shop-keepers to distill and sell country spirits at specified places. We cannot afford even to impose any restrictions upon their distillation, such as by limiting the size of stills or the hours when they

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may be used. The latter restriction we have no means of enforcing, and the former can be easily evaded by setting up a still in some adjacent jungle. It is the selling, and not the distillation, which must for the most part take place in public and can therefore be subjected to control; and our principal means of preventing disciplination is to make it the licensee's intercet that no sale shall take place besides that in respect of which he has paid a fee to us.

"20. Personally, I hold most strongly to the view that the system of a still-head duty per gallen is the only satisfactory method of Excise administration, and that no other system cas give us a satisfactory control over spirit manufacture and spirit consumption. But the result of such information as I have been able to gather from officers who have dealt with the problem in Assam and from a perusal of past records, and especially of a recent discussion on this very point, which Mr. Fitzpatrick submitted to the Government of India with his letter of 13th November 1858, is to show that the circumstances of Assam are such that the first conditions of such a system, viz., the possibility of preventing illicit distillation, does not exist. The only area where a Central Distillery system seems to have any chance of success seems to be the central portion of Cachar, and the success of the system there would largely depend upon the possibility of keeping outside the Central Distillery area the spirit distilled under the Outstill system all around it."

The following extract from the report of the Bengal Excise Commission shows how extensively illicit distillation and smuggling prevails in some places under the Central Distillery system:—

"Positive evidence of the prevalence of illicit distillation in various districts .- The actual fact seems to be that illicit distillation extensively prevailed in some districts, especially in those in which the mohwa-tree grows, those in which the lower classes of the population use country-liquor extensively, and generally in wild and thinly-populated tracts; and that, on the other hand, it was comparatively rare in towns, thickly-populated tracts, and among populations not given to the use of spirituous liquors. This view is supported by the positive evidence on the subject. In Gya, Baboo Bhup Sen Singh, the Government Pleader, who has an intimate knowledge of the district, stated that there had been illicit distillation under the Central Distillery system, and this was corroborated by Shek Aulad Ali, an Assistant Superintendent of Police with 45 years' experience of the district; by Ray Brahmo Datta, now excise-inspector of the Division, formerly excise-sheristadar; and by Baboo Prankumar Das, excise deputy collector of the district, whose evidence on this point should be referred to. In Patna and Sarun it would seem to have been less prevalent, though there is clear evidence as to its existence in both districts The deputy inspector of schools in Mozufferpore stated that while the Central Distillery system was in force well-to-do people used to distil spirits in their own houses. Munshi Kuldip Narain, sub-manager of Raj Durbhunga, stated that in the Durbhunga district many cases of illicit distillation were heard of previous to the introduction of the Outstill system. Mr. Cameron, sub-divisional officer of Bettiah, stated that there used to be much illicit distillation in Chumparan; and this is corroborated by Mr. Shaw, of Pursa indigo-factory, and other witnesses. In Monghyr the Rev. Mr. Evans and other witnesses give strong opinions as to the improbability of the existence of illicit distillation owing to the ease with which it could be detected; but Mr. Pushong, a witness who has unusual opportunities of knowing the actual facts, stated from personal knowledge that considerable illicit distillation among respectable reople had been carried on before the introduction of Outstills; and he added that wherever there is a Central Distillery there will also be illicit distillation and smuggling. This view was strongly represented to the President of the Commission in conversation by Baboo Kamalesri Prosad, a wealthy zemindar, whose father had been for many years engaged in the spirit trade. In Bhagulpore Baboos Surjya Narain Singh, Tej Narain, Tarim Prosad, and others spoke of the existence of illicit distillation in that district. In Chota Nagpore there was much evidence of the prevalence of illicit distillation during the Central Distillery period, but a few examples will suffice. In Hazaribagh the Government Pleader, Rai Jalu Nath Mukerji Bahadur, one of the best informed and most experienced witnesses that appeared before the Commission, said :- 'There used to be much illicit distillation under the Central Distillery system, but it has diminished of late. It is the interest of the Outstill-holder to put down illicit distillation. It was the interest of the retailer to sell illicit spirit under the cover of duty-paid spirit, and he was therefore the ally of the illicit distiller when he did not illicitly distil himself. Zemindars and other well-to-do people send their material to Outstills to be distilled. They used to do the same with the sudder distillers but not often." Baboo Navakrisna Roy, police inspector of Lohardugga, has given lists of 54 villages in two thanss of that district in which cases of illicit distillation were detected, and adds that it was known to exist in very many more villages, in which, however, no cases

were detected. The Rev. Mr. Uffman, a missionary who has resided for 17 years in Manbhoom, states that there used to be illicit distillation in that district. In Beerbhoom the Commission obtained a list of 40 villages in which illigit distillation was known to have existed, and some most respectable contlemen were manimous to the its prevalence in 31 of these. Some of them, but not all, had heard of the illigit practice in six of the other villages, and none of them knew anything about the remaining three."

(5) Even where there are no special difficulties of communication, it is sometimes necessary that the liquor should be distilled on the spot and not brought from a distant distillery; because in the hot season some kinds of liquor of low strength will not bear transportation. Any measure which would drive the people to the use of a stronger instead of a weaker liquor is opposed to sound principles of Excise administration as we understand them.

A series of extracts from Reports showing the difficulties in the way of adopting the Central Distillery system in many places will be found in Appendix L.

Difficulties in connection with Native States.

71. The state of things to which we have just referred exists within the borders of British India, and the consequent difficulties in enforcing restrictions on drink would arise if the British administration extended over the whole of India. But of the continent of India, a scattered area, interlaced in many places with British territory, amounting in extent to about one-third of the whole, and containing a population of about one-fifth, belongs to Native States, with the internal administration of which in matters of Excise the Government of India does not ordinarily interfere, and cannot in some cases interfere as a matter of right without straining its authority beyond what is safe or justifiable. In all those States the Excise systems were, and in most still are, incomparably more lax than in British territory. The system generally followed in them hrs been an uncontrolled Farming system with practically no restrictions on the farmer to prevent his unduly diminishing the price of liquor or increasing the number of shops. The consequence is that the cheaper liquor of Native States is constantly smuggled into British territory. The only complete remedy for this evil lies in inducing those States to adopt a stricter system and to impose higher rates of duty; and this the Local Governments have in some cases succeeded in doing in recent years, notably in Bombay and, more recently and to a much smaller extent, in the Punjab. In Bombay the Government has also obtained, at a not inconsiderable cost, the consent of some Chiefs to our officers undertaking the direct management of the Excise administration of their States.

72. The following extracts from a Report by Rao Bahadur Lallabhai Gurdhundas, dated 15th July 1887, indicate the serious nature of the difficulty described in the preceding paragraph. He remarks:—

"5. Under this plan of exact taxation, it is necessary to fix the rates of duty for different districts with great care and circumspection. As the amount of duty would govern the selling price of the liquor, and as there is a certain price, varying according to the character, habits, and wealth of the people, which can safely be realised on the spirits consumed by the masses, and which cannot be exceeded with impunity, the duty on liquor ought not to exceed the difference between that price and the cost of the liquor. Even when the people themselves can afford to pay for a moderate and harmless dose a price that would cover the highest rate of duty which Government desire to impose, the possibility of sanuggling and illicit distillation is not to be lost sight of in the zeal for enhancing the price of liquor with a view to diminish consumption. Preventive establishments and stringent penal enactments can do a great deal in suppressing illicit distillation, which cannot long remain undetected. But where a liquor

made dear by the imposition of a high rate of duty is confronted by cheaper liquor, to be had for a stroll to an adjacent foreign shop, the whole of the liquor-drifting population for miles round will flock daily for drink to the foreign liquor shop; and experience has shown that Kolis, Warlis, and other low classes addicted to drink will not mind-walking 10 miles to a shop and back in order to get cheap liquor; and, what is even worse, quantities of cheap liquor will always be smuggled into the high-priced liquor tract without much fear of detection; in short, the object aimed at of diminishing the consumption of liquor will be defeated. Therefore, in districts which are bordered by or interlaced with foreign territory, the desired result can be obtained only by the same system being adopted and worked consistently in both territories. To this end the co-operation of our neighbouring Native Chiefs is essential to the mutual

advantage of themselves and the Government.

"6. Government have experienced comparatively little difficulty in securing the co-operation in this behalf of the Native Chiefs in the Konkan, Deccan, and Southern Mahratta country, all of whom, with a few exceptions, have handed over the management of the abkari of their States to the Government for a term of years on payment of liberal annual compensation; and Government have thereby been enabled, not only to supplant the infamous Farming system of old and to launch with success the new system of the equitable taxation in those States as well as in their own contiguous districts, but also to bring within a short period of three years the Excise rates in the greater portion of the territories concerned to the desired level. The excepted States are those of Kolhapur, Savantvadi, and Janjira, which with equal readiness have adopted the same system and rates on their own account, and have for years past been reaping the fruits of their foresight and prudence in the shape of large progressive profits to the State treasury and improvement in the moral and material condition of the poorer classes—results which are no less conspicuous in the British districts and other Native States brought under the influence of the new system and policy

"7. In Gujarat, on the other hand, opportunity has not yet been afforded to try the same experiment under equally favourable conditions. Consequently, considerably lower rates of liquor excise and selling prices still prevail in that province, while in the contiguous Native States the old detestable Farming system continues to flourish. A question naturally arises, why has Gujarat, with all these favourable circumstances, lagged in recent years far behind other districts of the presidency in the progress of abkari reform designed to raise the largest amount of revenue from the smallest consumption of liquor? The answer to this question directly points to the obstacle—the absence of sympathetic arrangements and action in contiguous Native States—which the subject of this report is intended to remove. It is needless now to describe here the details of the correspondence carried on during the last eight years with a view to the removal of that obstacle. Happily, the controversy promises to terminate with the acceptance by our Government and faithful observance by the Native Chiefs con-

cerned of the understandings which I shall proceed directly to narrate. "8. I request you to glance at the map of the Bombay Presidency and to mark the contrast which the situation of British Gujarat presents to that of the rest of the presidency with reference to foreign territory. Barring the Holkar's dominion which marches along the northern frontier of Khandesh for a distance of about 150 miles, and with which no abkari convention has yet been thought of, and barring also the Nizam's dominion which marches along the eastern frontiers of the districts of Khandesh, Nasik, Ahmednagar, Sholapur, Bijapur, and Dharwar almost in a regular line for a distance of about 700 miles, and with which the mutual retirement of liquor shops and stills to a distance of 8 miles on either side of the frontier has just been agreed upon, the rest of the Native territory with which the larger block of the presidency south of Daman is concerned consists of but one first class State and a number of petty holdings of small extent and importance, all imbedded in the midst of British territory. British Gujarat, on the other hand, is, as it were, surrounded by a sea of, and intersected by, innumerable gulfs, creeks, and lakes of foreign territory, which includes the large and important State of Baroda, many other first, second, and third class States, and a number of petty talukas and thakorates, each owned by a separate Chief or Thakor. From this geographical contrast between the two divisions of the presidency, it will readily be seen that the task of forming what for brevity's cake may be called the abkari soll-ver-ein must be much more difficult in Gujarat than in the rest of the presidency. The difficulty of the task, which is due to the peculiar configuration and relative situations of British and Native territories in Gujarat, to the great difference in the magnitude, status, and the internal and external conditions of the different Native States to be dealt with, and, above all, to the conservation of the Chiefs and their sentiments of dignity and rights, has been two-fold: first, to incline all these Chiefs, large and small, to co-operation; and, secondly, to arrange with each the form and terms of co-operation which might be acceptable to the Chief and entisfactory to Government."

78. Further extracts bearing on this question will be found in Appendix D, but we will quote in this place an extract from a letter from the Government of the North-Western Provinces and Oudh, which gives Sir Auckland Colvin's personal experience in the cold weather of 1888-89:—

"During his march last year throughout Oudh, in no single instance has the Lieutenant-Governor and Chief Commissioner observed a case of drunksoness until he arrived on the Nepal border, when special police precautions had to be taken to prevent the camp-followers obtaining liquor at cheap rates on the Nepalese side of the frontier. In spite of these precautions as soon as the camp reach the Nepal border, men who, in face of the higher price of the excised liquor in our own territory, had hitherto found no opportunities of indulging their appetite, were seen by no means unfrequently in various stages of intoxication along the line of march."

Groundlessness of the charge that our Excise Administration gives greater facilities for drinking than an administration based on principles approved by the Native inhabitants and Native rulers would do.

74. The extracts just quoted and those given in Appendix D have been referred to with the object of explaining the existence of a very serious practical difficulty in the enforcement of Excise regulations in British India. But they also serve another purpose, and prove how groundless are the charges made against the Government of India that any increase in the habits of drinking which has taken place in India is due to the British Excise administration, and that, had the administration been conducted on the principles approved by the Native inhabitants and Native rulers, an increase would not have occurred. It may be true that, in some instances, our Excise administration has not been strong enough to counteract the tendency of other forces and to prevent an increase; but one of the main difficulties in the way of achieving that result is due to the less stringent regulations which prevail in the Native States adjoining and interlaced with British territory. Those States are ruled by Native rulers in accordance with Native ideas; and it is found that until pressure is brought to bear by the Paramount Power to induce them to adopt more stringent regulations, their Excise systems are such as to offer the smallest possible discouragement to drinking and are many times more lax than the laxest of the systems with which the Government of India has been in places obliged to be content, and the existence of which forms the main ground of the attacks which have been made on its Excise policy. In short, the mere fact of a British district being coterminous with a Native State is invariably found to be a serious obstacle in the way of raising the taxation on liquor in that district and of enforcing measures designed to restrict consumption. The only resource in such cases, when it is found impossible to make any satisfactory arrangement with the Native ruler, is to place the tracts affected under the Farming or Outstill system. The amount of revenue obtained in this way is never great, and the restriction on consumption is comparatively slight, but at any rate there is some restriction and the revenue is not wholly lost.

In a note by Rao Bahadur Lullabhai Gurdhandas, dated 19th July 1889, which will be found among the enclosures of the letter No. 9255 of 6th December 1889 appended to this Despatch, a comparison of the Excise arrangements existing in the Native States of the Bombay Presidency with that in the neighbouring British districts is made. The general assertion made in this paragraph is there proved by statistics to be true in regard to those particular Native States. The figures in that note show conclusively for each State

included in the examination that the number of shops per square mile is larger, that the average population served by each shop is smaller, and that the consumption per head is greater than in the adjoining British districts, and this is the case in spite of the fact that these States have been induced by the Bombay Government to adopt a system which is far more strict than that which formerly prevailed in them.

Reasons for the existence of many different systems.

75. The examination of the history of the Excise administration given in Appendix H will show that the tendency has always been towards the general introduction of the Central Distillery system, and that partial reversions towards a more primitive and less satisfactory system have either been temporary and experimental, or have arisen from the fact that the introduction of the Central Distillery system had been carried too far.

76. It was between 1860 and 1864 that the Central Distillery system was

generally introduced into Bengal and the Upper Provinces of India.

In the Province of Bengal it was found necessary to abandon the Central Distillery system in a few places very shortly after it was introduced. It was also found that the high uniform rate of duty could not be enforced in all places where the Central Distillery system was maintained. The choice, therefore, lay between a low uniform rate of duty and a scale varying from place to place. The latter alternative was adopted. The subsequent substitution on an extensive scale of the Outstill for the Central Distillery system after 1877 was not made without cause. The objections to the Central Distillery system were obvious and it was hoped that certain advantages, such as the suppression of fraud, of illicit manufacture and smuggling, and a consequent increase of revenue would be obtained. These advantages were actually secured, but the change was accompanied by the removal of the restriction on the capacity of outstills, and an increase of drinking followed which has rendered it expedient to return to the Central Distillery system where practicable, and to impose various restrictions on the Outstill system where it must be retained.

77. In the North-Western Provinces cortain tracts had to be removed from the operation of the Central Distillery system, and though the uniform rate of duty has been retained this has only been rendered possible by fixing the rate at a comparatively low figure, and increasing the numbers of shops so as to reduce the temptation to illicit practices.

78. In the Punjab, the Central Distillery system has been introduced and, with two trifling exceptions, maintained throughout the Province; the rate of duty is high, and it is practically uniform; on the other hand, illicit distillation and smuggling are more common than in any other Province, and the number of shops for the sale of liquor has been increased, though there is still only one shop for the sale of liquors of all kinds to nearly 10,000 of the population.

79. In 1878 the Central Distillery system was generally introduced in Bombay, but it was found necessary that it should be accompanied with the grant of monopolies and with a "minimum guarantee," the amount of the guarantee being fixed by competition. The system of a "minimum guarantee" fixed by competition is now being altered, as it was found to be open to objection in some respects.

80. In 1869 the Central Distillery system began to be introduced in Madras. It was accompanied with various conditions and special provisions

and has since been extended to nearly all the districts of the Presidency, having now developed into a system which is almost the Central Distillery system in its simplest form, and with a high rate of duty. The success of the system adopted in Madras is, however, accompanied by a large number of shops.

S1. The various systems of Excise in force in British India are described in Appendix G. It would be a fruitless task to attempt to explain, in every instance, to English readers, the minute local peculiarities which render it necessary to have recourse to each system. All the systems, other than the ordinary Outstill and Farming systems, have a common object, namely, to render it possible to impose a fixed rate of duty on each gallon of spirit that passes into consumption, and in this respect they are improvements on the Outstill or Farming system.

82. Though we cannot undertake to explain fully the special reasons which lead to the local adoption of each system, we will try to make it clear why one system was adopted which has been loudly attacked on plausible grounds.

We refer to the "minimum guarantee" system which in recent years has prevailed extensively in Bombay.

Under this system the monopoly of sale and manufacture is granted to the person who undertakes to pay duty on the greatest number of gallons of spirit, and of course any such system is open to attack on the ground that it offers a direct incentive to attempts to increase the consumption of spirit We shall show hereafter that this objection, though not without force, is theoretical rather than practical; but in the first instance we will set forth the considerations which have led to the introduction of such a system, considerations of a very different character from a mere desire to increase revenue by atimulating consumption.

83. The difficulties which render it impossible in certain tracts to maintain the Central Distillery system have already been stated in paragraph 70.

These are, briefly,—(1) the expense relatively to the amount of revenue to be collected, (2) impossibility of securing a trustworthy preventive establishment, (3) defective means of communication, (4) facilities for illicit distillation. (5) deterioration of liquor in transport, and (6) smuggling from foreign territory.

It will be obvious that these difficulties are, to a very large extent, obviated if a Farming or Outstill system be adopted. Under such a system (1) expense is reduced to a minimum, as a comparatively costly central distillery, with an establishment to watch it, need not be kept up; (2) a large preventive establishment (with its attendant risks of collusion with the distiller and oppression of the people) is no longer necessary, because the grant of a monopoly enlists, from strong motives of personal profit, the distillers and shop-keepers, with all their local knowledge, on the side of prevention; (3) the difficulties arising from defective communications are obviated, because the liquor can be distilled on the spot where it is consumed; (4) illicit distillation is checked by enlisting the local knowledge of the shop-keepers on the side of prevention; (5) the liquor can be distilled on the spot and the risk of deterioration in transport is avoided; and finally (6) smuggling from foreign territory is reduced to a minimum, because the monopolist can reduce the price of his liquor so as to exclude smuggled liquor, which must be imported from a distance and which is also handicapped by the risk of detection.

Against these advantages must be set certain evils which attend the introduction of the Farming or Outstill system, and which in many cases

would be more serious than those which it is desired to prevent. chief of these is that the price of liquor may be greatly reduced. The object of the monopolist is simply to make the largest possible profit, and in many cases it will happen that the maximum of profit will be secured by a large sale at low prices rather than by high prices with a restricted sale. A check may no doubt be applied to this evil by fixing a minimum rate for retail sales. and limiting the capacity of the outstill, but the effective maintenance of regulations of this nature requires a strong preventive force, and in some places the enforcement of a minimum price for retail sales and the prevention of distillation in any but the licensed still are practically impossible

84. In the circumstances described in the preceding paragraph the question naturally arises, whether it is possible to combine the advantages of the Farming or Outstill system, which may be described as the monopoly system, with those of the Central Distillery, in such a way as to prevent the sale of liquor at very low rates. This result, it was supposed, could be attained in certain tracts by granting a monopoly of manufacture and sale coupled with the conditions that the farmer shall guarantee a minimum payment by way of duty, that he shall distil only at a central distillery, and that he shall pay a fixed duty per gallon of liquor issued from the distillery. Such a system is suitable only where the chief difficulties to be overcome are illicit distillation on an extensive scale and the evils connected with preventive establishments.

85. An arrangement under which the monopoly of sale and manufacture is granted to a single person, who is required to distil in a central distillery, and to pay a fixed duty per gallon, obviates the risk of illicit distillation by the general public, but it offers to the monopolist the temptations which exist under the ordinary Central Distillery system—(1) to distil illicitly on his own account outside the central distillery, and (2) to enter into collusion with the preventive establishment to pass liquor out of the distillery without payment of duty. As a remedy the further condition of a "minimum guarantee" is imposed, or, in other words, the monopolist is required to pay duty on a certain quantity of liquor whether he can sell that quantity or not. If he sells more than the guaranteed quantity he pays duty on the excess; if he sells less he is obliged to make up the duty to the amount of the guarantee.

86. It will be obvious that if the amount of liquor on which duty is guaranteed is about equal to the amount for which there is a demand, there is no risk of illicit distillation with the connivance of the monopolists or of liquor being passed out without payment of duty. Until the amount guaranteed has been made up there is no profit to be made either by illicit distillation or by removing liquor without payment of duty, and if the amount gunranteed is not greatly less than the normal demand, the profit to be made by illicit dealings is not sufficient to induce the monopolist to run the risk of violating the law.

87. Unfortunately very great difficulty, especially at first, was experienced in determining what was the normal demand, and it was found necessary to determine by public competition the amount to be guaranteed, the monopoly being granted to an approved tenderer who undertook to guarantee the maximum quantity.

This condition is open to attack, since it may be said, with some reason, to make it the interest of the monopolist to stimulate the consumption of liquor. The objection, however, has less practical weight than might at first sight be supposed. As the number of shops is limited the monopolist could not increase consumption by multiplying shops, and as he paid a heavy duty per gallon he could not reduce the average price of his liquor below the rate of duty plus cost of production, &c. The incidental attractions of lighting and so forth, employed by public houses in England to increase the number of their customers, are not available in India, and, so far as we can see, the only effective method by which the monopolist could stimulate consumption was by raising the price of liquor where the demand for it was strong, and by lowering it in places where a reduction in price was accompanied by a more than equivalent increase in consumption, the average price, as above explained, being in this way maintained.

88. But it might, and would no doubt occasionally, happen that under a system regulated by public competition the tenderer would guarantee duty on a larger quantity of liquor than he could sell at a rate per gallon not helow that required to give him a profit, and in such case he would be under a strong temptation to diminish the loss on his contract by reducing the price of liquor below what it cost him, including duty, in the hopes that increased sales would diminish the excess payment under the guarantee. At any rate the Bombay Government was satisfied that the minimum guarantee system, the amount guaranteed being determined by competition, was open to such strong objection, that in the two districts of Thana and Kolaba they substituted, experimentally, a system under which the monopoly was granted to the person who undertook to pay the highest rate of duty per gallon, in excess of a stated minimum, on all spirit manufactured and sold by him. This system removed all ground for the accusation that it was made the special interest of the monopolist to stimulate consumption; but in other respects the results were disastrous. The rate of duty fixed in this way by competition was so high that a great impulse was given to illicit distillation, and as the monopolist was under no obligation to take a minimum quantity, he was not specially interested in preventing smuggling, and confined himself to selling what liquor he could at a very high price, leaving those who could not, or would not, pay his price to provide themselves with liquor by illicit means. The facts connected with this experiment were reported to Your Lordship in our Despatch No. 340, dated 22nd October 1889, but for facility of reference we have reprinted as Appendix E the account of the experiment given in a memorandum received from the Bombay Government and forwarded to Your Lordship with that Despatch.

89. On recognizing the failure of the experiment the Bombay Government directed that in future the amount to be guaranteed should be fixed by the Collector of the District and not determined by competition, and that the monopoly should be given to a person approved by the local authorities. We trust that this system may be so successful as to justify its permanent and wider adoption, but it is obviously open to the objection that it may lead to charges of favouritism being brought against the local authorities, and it may produce a loss of revenue if the monopolist can succeed in concealing the total amount of the liquor manufactured and sold by him, and in this way secures a low "minimum guarantee" which makes it profitable for him to run the risk of illicit distillation and smuggling on his own account.

We are, however, satisfied that no system can as yet be devised which will be absolutely free from objection, and we must be content to adopt that one to which fewest objections can be made.

90. We fear Your Lordship may think we have dealt at undue length with questions connected with the minimum guarantee system, but we are anxious

that some of the difficulties which we have to encounter and of the measures adopted in order to meet them should be set out at length. in fact only dealt in an imperfect manner with one branch of the Excise administration of a single Province, and our remarks are necessarily neither as full or complete as if the question had been dealt with by the Local Government concerned. No slight advantage of the introduction of the system of minimum guarantee lies in the fact that under this system it becomes possible to insist on proper distillation and the use of the best apparatus, with a consequent improvement in the quality of the liquor offered for sale.

91. What we have already said will, we trust, be sufficient to satisfy an impartial mind that the local authorities in India have great difficulties to meet, that they are doing their best to overcome them, that the numerous systems of Excise which prevail locally in British India have been adopted with legitimate and praiseworthy objects, and that rash interference with the Excise Administration of India might be productive of great evil. We do not claim that the Administration is perfect; we acknowledge that mistakes have been made, and that experiments have failed, but we need hardly say that we have no desire to establish different systems merely for the sake of avoiding uniformity, and it may be taken for granted that there must be reasons, of greater or less weight, for such diversity of practice as we have shown to prevail in India. A simpler and uniform system would be more easily worked, and could be more readily understood, and would thus obviate much misapprehension and criticism. Unfortunately the circumstances do not permit of our adopting such a system.

SECTION III. - OBJECTS AND PRINCIPLES OF EXCISE ADMINISTRATION.

Raising of Revenue and Regulation for purposes of Police.

92. It will be admitted that among the legitimate objects of a system of Excise are included the raising of revenue and the regulation of the trade in liquor for police purposes. These are the undoubted and, from an historical point of view, probably the primary objects of such a system. It was at a later stage that it was recognised that the regulation of the trade in liquor for the purposes of revenue and police might with advantage be so conducted as to discourage any tendency to drink to excess, and to lead to the substitution of wholesome or comparatively harmless liquor for that which was positively noxious. Up to the present time, however, there is no general agreement of opinion regarding the measures which may properly be taken by a Government for these purposes.

93. In India no special difficulty is experienced in regulating the Excise system for purposes of police, and such minor difficulties as arise in this connection are due rather to the want of an efficient agency to ensure that prescribed rules are duly observed than to any difference of opinion as to what these rules should be.

In respect of the realization of revenue, the principle to which we have given our adherence, and which has been generally adopted, is to impose as high a tax as may be possible without giving rise to illicit practices; this principle is, of course, subject to such limitations in practice as special circumstances may justify.

No general agreement regarding the extent to which Government should go in the direction of restricting the consumption of stimulants or narcotics.

94. So long as we confine ourselves to police and fiscal considerations we

deal with questions regarding which the functions of Government are defined with sufficient clearness and unanimity; on the other hand, when we endeavour to introduce an Excise system with the object of modifying the habits of the people in regard to drinking, we are confronted with complicated moral and social problems, any solution of which is impeded by obstacles both of a theoretical and of a practical nature. It is owing to an alleged failure to discourage drinking that the Indian system of Excise has been attacked, for, though it has been asserted that we especially encourage drinking for the sake of revenue, we understand this to be merely a mode of expression used for rhetorical purposes with the object of putting in a striking form the charge that, owing to our wish to increase the revenue, we do not go as far in discouraging drinking as we ought, or as those who make the accusation think we ought. Every Excise system in force in British India does, at any rate in some degree, check drinking, inasmuch as it limits the number of places at which liquor may be purchased, restricts sale within certain hours, and raises the cost of liquor by imposing a duty on it.

95. It will be obvious that when we are charged with not sufficiently discouraging drinking a wide door is opened for difference of opinion and profitless discussion so long as there is no general agreement as to the extent to which it is possible and expedient to go in this direction. The entire prohibition of the use of stimulants and narcotics (if it could be carried out) would be the most effectual means of preventing the evils which undoubtedly result from their excessive ase. And there are some who advocate this extreme measure. But we are of opinion that the evil to be prevented is not of sufficient magnitude to call for, or justify, any such interference on the part of Government, and that the remedy might be attended with evils even greater than those which it was intended to prevent. It may, not unreasonably, be argued that, as a rule, people are able to decide for themselves what habits are beneficial or the reverse, and absolute prohibition would by many be regarded as an intolerable interference with the liberty of the subject.

Prohibition impossible in India, even if desirable.

96. If, in disregard of the considerations just stated, it were decided that it was expedient to attempt entire prohibition, the question would arise whether it would be possible to enforce it. Whatever might be the answer to this question in regard to such a country as England, we have no hesitation in saying that for India the answer must be in the negative. The facilities for manufacturing and obtaining spirits are so great, and the desire of many classes for stimulants so strong, as to forbid any hope that universal prohibition could be enforced. A law so much at variance with the stronger laws of habit and desire would in some cases merely create a contempt for law and a spirit of lawlessness in large classes of the population. We are not prepared to say that the use of stimulants in moderation is harmful, and total abstinence, due simply to the impossibility of obtaining liquer, and lasting only so long as that impossibility could be maintained, would, in our opinion, be far less satisfactory from every point of view than moderation in the use of stimulants due to conviction and enforced by public opinion.

97. It has been alleged that no Native of India pses stimulants in moderation, that he either abstains altogether or drinks to excess and for the purpose of producing intoxication. This assertion, though not without foundation in reference to certain classes, is of far too sweeping a character when applied to

the whole population of India. On this subject the Government of Bengal uses the following language:—

"The Lieutenant-Governor considers that he should not in this report pass over without remark the observation in Mr. Smith's speech that among the native population 'there is no such thing as a class of moderate drinkers, though there may be a few educated Natives who have adopted English habits. A Native, if he drinks at all, drinks to get drunk and he drives hard bargains with the publicans for the purpose.' Sir Steuart Bayley's experience of Bengal, and especially of Behar, where the drinking population is the largest, enables him to user confidently that Mr. Smith has been misinformed on this point. It is not the case with the great bulk of the lower classes, who habitually use stimulants, that they drink only for the purpose of intoxicating themselves."

The same opinion is expressed by Mr. Mackenzie, the Chief Commissioner of the Central Provinces:—

"Whatever may be the case elsewhere, it is quite incorrect to say that a Native of these Provinces, who is in the habit of drinking country liquor, 'drinks only to get drunk.' As was noticed in paragraph 17 of this Administration's letter No. C—50, dated 24th September 1888, the extreme weakness of the spirit which is manufactured from mohwa by the kullars of these parts is a fairly effective check upon excess. Spirituous liquor, which is from 70° to 80° below London proof, must be consumed in inordinate quantities before intexication supervenes: and except on festal occasions the kullar's customer is content with his glass. In fact, the only class of Native of these Provinces in respect of whom the accusation that drink is taken for the purpose of getting drunk is not a libel is, in the Chief Commissioner's opinion, the numerically small, but more influential section who have so far adopted European manuers as to have cultivated a taste for English spirits. Generally throughout India it is the growth of intemperance in this class that has given rise to the complaints of Native reformers like Keshub Chunder Sen, and has seemed to give point to the charge that drinking habits are extended in India under British Administration."

Local option impracticable.

98. A consideration of the arguments just referred to, as well as of others which we need not here specify, has convinced us that absolute prohibition, and what is known as local option, are both out of the question in India. A system of local option would throw the whole administration into confusion and would in some places create an intolerable class tyranny which might have very serious political effects. We doubt greatly if a Sikh community would quietly submit to the total prohibition of liquor by a Muhammadan majority, and we believe that in some tracts local option would lead to the indefinite multiplication of liquor shops and the reduction of the rate of duty to a minimum. We have already dealt with this question at some length in our Despatch to Your Lordship, No. 157, dated 25th May 1889. As was stated in that Despatch, any system of local option presupposes the existence of a highly developed system of local or municipal institutions to which representatives are elected by the mass of the people, and in which all conflicting interests command their due share of attention. No such system exists in India.

Difficulty of ascertaining public opinion on the question of drink.

99. Putting aside the question of local option, the difficulties even in the way of ascertaining what public opinion on the question of drink really is, and of determining the amount of deference that may reasonably be paid to it, are very serious. The widest divergence exists both in respect of the extent to which the habit of drinking is practised and of the degree of disapprobation with which it is viewed, and it is difficult to determine what meaning to attach to public sentiment on the question of drinking in a locality where one portion of the community regards drinking as a social, or even religious, duty, while another portion regards the consumption of spirits in any form or quantity as a positive sin.

100. At one end of the scale there are the Muhammadans and some of the higher castes of Hindus, whose religion forbids them to consume spirit in any form. This religious precept is largely, but not by any means universally, observed by these classes, and the obligation imposed on them by caste or religion to abstain from drink has undoubtedly been weakened where English education has made progress, and European habits and modes of thought been adopted to a greater or less extent.

At the other extreme there are classes who not only habitually drink whenever they are able to do so, but, in some instances, consider the consumption of, liquor as a part of their religion. The following extract from a report dated 3rd October 1888, by the Deputy Commissioner of Darjeeling, illustrates this aspect of the question:—

"In the case of all these people, with the doubtful exception of Brahmans and Khas both of whom profess to abstain from intoxicating drinks after marriage, the constant use of strong drinks is favoured by hereditary tendencies and enforced by social usage and religious prescription. Many of them have imperfectly accepted the mere externals of Buddhism or Hinduism; but the working religion which underlies these holiday creeds and really affects their daily life is the confused superstition which Sir John Lubbock calls Shamanism, and Tiele and other continental scholars are beginning to describe as Animism. Neither name is particularly happy. For our present purpose, the main feature of the Shamanistic belief is that men are surrounded by an infinite number of supernatural beings, spirits of hills, forests, rivers, diseases, ancestral ghosts, departed medicine men, and the like. These beings are active in ill-doing. They require incessant propitiation, and they love nothing so well as strong drink. This is offered in an earthen pot, or a hollow bamboo chunga. A scanty libation is poured on the earth, and the remainder, along with eatable offerings, is afterwards consumed by the worshipper. Whether the taste for liquor gave rise to this practice, or the religion developed the taste for liquor, it would be fruitless to inquire. The point is that the practice forms an essential part of the ritual of the household and family gods in the tribes and castes I have named, who make up quite 80 per cent. of the population of this district. The same obligation is recognised with equal force at marriages and funerals; and the Deputy Commissioner constantly receives petitions for leave to get in large quantities of liquor for use on these occasions."

In August 1881 the Chief Commissioner of Burma wrote as follows:-

"The Karen race have more or less generally been allowed to distil spirit without duty at stated times of the year. The alleged reason for the concession was that the custom or cult of the Karens requires them to offer sacrifices of spirit to the 'nats' (spirits or demons) whom they had to propitiate. In reality all the spirit thus brewed is drunk by the Karens; but the custom is, to their minds, hallowed by long use and by religious feeling. Recently effort has been made to curtail this privilege among Karens of the more settled tracts, because the license of free distillation was said to be debauching the Karens and also impairing the Excisorevenue. Representations have been made against the withdrawal of an old privilege; and these representations are in some instances supported by European officers who serve among the Karens. The tribes themselves aver that the 'nats' require home-made spirit, and will not accept sacrifices of liquor issued from the licensed distilleries."

Many passages of a similar character might be given from reports which refer to other parts of India. A selection from such passages is printed in Appendix B to this Despatch.

101. Between the two extremes to which we have referred there exist in India classes of all shades and degrees of opinion and practice in regard to the habit of drinking, for whom drinking is neither enjoined nor absolutely forbidden by their religion. For example, the Sikh religion permits drinking, and many classes of Hindus, of some standing in the social scale, are not forbidden to drink either by caste rules or custom, and do in practice resort to the use of stimulants in a greater or less degree. In addition to the numerous classes, falling under this intermediate head, whose religion and opinions are of an origin independent of European influence, there are also the Europeans, the Eurasians, and the Native Christians, whose habits and opinions must be considered in framing Excise regulations.

In many places these classes live side by side, and restrictions on drink which would be viewed as beneficent by one class would be considered by others to be tyrannical, while it is obvious that an Excise system, which might be suitable for, and approved by, one of these numerous classes, would be unsuitable for the majority of the other classes.

For Muhammadans and Hindus of certain castes no special restrictions are necessary in order to discourage drinking. The habit is opposed to their religious principles and is discountenanced by the public opinion to which they are subject. It is no doubt true that some Muhammadans and some Hindus, for whom drink is forbidden by their religion, do drink secretly or openly, but this is either because they choose to disregard in this respect the principles of the religion which they profess, or because they have adopted Western habits and modes of life. In such cases any restrictions that Government could impose would be of infinitely less force than those which have been already disregarded.

On the other hand, almost all Europeans and Eurasians and many Natives of India, especially the aboriginal tribes, would regard severe restrictions on drinking as an unnecessary and tyrannical interference with their modes of living. Such restrictions would be frequently disregarded by these classes and would provoke a spirit of opposition, the strength of which is ignored by those who favour prohibition, whether enforced universally by Government, or locally and partially through the means of local option.

102. The considerations we have stated point to the conclusion that it is not merely impracticable and impossible to prohibit the use of stimulants in India, or to introduce a system of local option, but show also that it is impossible to introduce any Excise system that would be equally well adapted to all classes of the population of India and would be in complete accord with such public opinion as may be said to exist in different parts of the country. Nor could distinct and separate systems be applied to each of the several classes described or to groups of them. These classes are not distributed simply with reference to geographical considerations. The inhabitants of some districts are no doubt more given to the habit of drinking than those of others; but many of the varying degrees of disapprobation of the practice of drinking are represented in every district; and everywhere, or almost everywhere, there are both people to whom drinking is forbidden by their religion and also people for whom it is permissible and who do as a fact drink more or less whenever they can afford to do so. Any Excise regulations which could be adopted for a particular locality must necessarily fail to be suitable and acceptable in respect to at least some portion of the inhabitants.

Policy of the Government of India in matters of Excise.

103. Looking to all the conditions of the very difficult problem with which we have to deal, we have, after careful consideration, arrived at the conclusion that the only general principles which it is expedient or even safe to adopt are the following:—

- (1) that the taxation of spirituous and intoxicating liquors and drugs should be high, and in some cases as high as it is possible to enforce;
- (2) that the traffic in liquor and drugs should be conducted under suitable regulations for police purposes;
- (3) that the number of places at which liquor or drugs can be purchased should be strictly limited with regard to the circumstances of each locality; and

(4) that efforts should be made to ascertain the existence of local public sentiment, and that a reasonable amount of deference should be paid to such opinion when ascertained.

These are the principles which have been laid down for the guidance of local authorities by the Government of India in the past, with the single exception that the arrangements for ascertaining public sentiment were imperfect and not authoritatively imposed.

104. The omission to lay down positive orders of universal application regarding the deference to be paid to popular sentiment in particular places was not due to oversight. The question had been considered more than once, and notably by Lord Northbrook's Government, in 1874; but the difficulties currounding the whole subject were so great that it was deemed inexpedient to issue general orders at that time, and the matter was left to the discretion of the Local Governments which were necessarily in the best position to say what rules were required or could safely be followed. The steps we have recently taken in the direction of providing that public opinion shall be consulted have already been explained in our Despatch No. 157, dated 25th May 1889, and Your Lordship has approved them in Despatches No. 67, dated 15th July, and No. 113, dated 21st November 1889. The following is a copy of the instructions which we have issued:—

"2. It will be observed that, in the opinion of the Government of India, the best method of ensuring that due regard shall be paid to local public opinion in the matter of licensing liquor shops consists in the issue of appropriate instructions to the officers to whom the Excise administration of districts is entrusted. The Government of India do not consider that it would be useful at present to issue any general instructions on the subject applicable to all provinces, but desire that the several Governments may give the matter careful attention, and after consideration of the measures in force and the experience gained in other provinces, as described in the enclosures of this letter, take such steps to secure the object in view as may seem suitable. The Government of India are inclined to think that the procedure adopted in Bengal, where distinct instructions have been given to the licensing officers to ascertain and consider local opinion, and directions have been issued that where municipalities exist the Municipal Commissioners should be consulted in determining the location of shops, might be generally followed with advantage. But having regard to the varying conditions of different provinces, it has been thought desirable for the present to leave to Local Governments full discretion to decide what measures are expedient in each case."

We have found it necessary merely to indicate the general line of policy to be followed in this matter, leaving the Local Governments at liberty to carry out that policy in the manner which, with reference to local conditions, seems likely to secure the most satisfactory results.

105. The practical measures which we propose to adopt in future in furtherance of our declared policy comprise (1) the abolition of the Farming or Outstill system in places where it is found practicable to do so, (2) the gradual introduction of the Central Distillery system in its least complex form, (3) the imposition of as high a rate of duty on country liquor as it will bear, subject to the limitation that such duty shall not exceed the tax levied on imported liquor, and (4) the restriction of the number of shops. Where the Outstill system is retained we shall, as far as possible, enforce the limitation of the capacity of the still, and in some instances a minimum selling price.

We do not anticipate that the carrying out of this policy in a rational manner and with reasonable regard to the circumstances of the country will lead to any loss of revenue. On the contrary, we believe it will be as successful from the financial as from every other point of view.

APPENDIX G.

DESCRIPTION OF THE VARIOUS SYSTEMS OF EXCISE IN FORCE IN BRITISH INDIA.

1. Before the advent of British rule the limitations imposed on the manufacture and sale of liquor, when occasional and limited attempts at total prohibition in a few places had proved unsuccessful, were devised with the sole object of raising revenue and without any design of regulating or controlling consumption. And it may be stated with complete, or almost complete, accuracy that the system in force was that of farming, the right of manufacture and sale being given to the highest bidder and no restriction being placed on the number of shops or their position. Under British rule attempts were made to modify and improve the system, but the measures adopted to introduce the desired regulation and control were worked out in each province separately with reference to local peculiarities, and by officers having as a rule only local experience, and possessing no knowledge, or only a very general knowledge, of what was being done in other provinces. The result has been to bring about many shades of difference in systems bearing a general resemblance and, in not a few cases, to cause different names to be applied to systems identical in all essential particulars, while sometimes the same name has been given to systems which differ in not unimportant respects.

2. For practical purposes the spirits consumed in India in the present day may roughly be divided into three classes—(1) Imported spirits, (2) Country spirits, and (3) Spirits manufactured in India after the "European method." "Country spirits" include spirits manufactured in India by the rough and careless methods which have long prevailed. Spirits manufactured after the "European method" are spirits manufactured in India as carefully as spirits are manufactured in Europe. The distinction is one which it is not easy to draw in all cases, but it has been found convenient to maintain it, because the more carefully manufactured spirits, ordinarily consumed by a wealthy class, can be made to bear a higher rate of

duty.

3. The numerous systems applicable to country spirits may be divided into two main groups:

(A) Those under which a fixed duty is levied on each gallon of spirit manufactured and

issued for sale.

(B) Those under which the tax is not thus directly proportioned to quantity, but is levied in the gross by payments the amount of which is usually fixed by competition.

The general designation for the first group is the Central Distillery system and of the second group the farming and outstill system.

The Central Distillery System.

4. The system to which the name of "Central Distillery" was first applied, and perhaps the simplest form of the group, is one under which a central distillery is maintained by the Government, and any approved person is allowed to set up a still in the building and to manufacture spirits under the supervision of the officials attached to it: the distiller pays the fixed duty on each gallon of manufactured spirit which he passes out of the distillery: in addition to the duty, which varies in different provinces and districts, the distiller is usually required to pay a rent for the use of the building, or a small fee to cover the cost of the building, and establishment: no monopoly of manufacture is created, and the right to manufacture is kept distinct and separate from the right to sell.

5. A Central Distillery system of this character is in force in Lower Bengal, the North-Western Provinces and Oudh, and the Punjab; also in Burma where, however, it is applied only to spirits manufactured after the "European method." This system is, in all essential

points, and as nearly as may be, the same as that which prevails in Great Britain.

6. The same system is in force in the Central Provinces, with this difference that the fixed duty is levied not on the quantity of manufactured spirits, but on the quantity of material used for distillation. This difference in the mode of calculating the duty, though not necessarily in the duty, is due to the fact that it is considered easier to ascertain the quantity of material than the quantity of spirit, which being less in bulk is more easily smuggled, and also to the fact that practical difficulties are experienced in testing, and securing an accurate record of, the strength of the spirit.

7. Under the system just described the number of shops and the precise locality of each shop are fixed by the district authorities. The sale of liquor at any place other than these shops is forbidden. License fees are charged for the right to sell at the shops, of which the number has been limited as above stated. The method of levying those fees varies in the

provinces named and in different portions of the same province. The fees are in some places fixed annual or monthly amounts, in others the amount is determined by competition at auction or by tenders. The shops are generally disposed of separately, but occasionally they are disposed of in groups for certain areas. The strict limitation of the number of shops caused the right of sale at a shop to be in many cases a source of large profit, and the right of sale is consequently disposed of by competition to approved persons, because in no other way could that profit be obtained as revenue for the State.

The " Free Supply" System of Madras.

- 8. The system known by the somewhat misleading name of the "Free Supply" system which prevails in Madras is very similar to that just described. Under it the right of sale and of manufacture are kept distinct, and no monopoly of the latter is granted, while the regulations regarding sale are as stated in paragraph 7 of this Appendix. It differs from the ordinary Central Distillery system in that no distillery is maintained by the Government. Any respectable person is allowed to establish a distillery of his own on payment of the prescribed fixed fee, and in it to manufacture liquor under the supervision of excise officers.
- 9. This is the system which now prevails in the greater portion of the Madras Presidency, where it is being extended and, where it is being worked with great success from every point of view. The term "Free Supply" is applied to it in order to give prominence to the fact that a licensed shopkeeper may obtain his supply of spirits from any distiller, whereas under the superseded systems each shop was required to draw its supply of liquor from a particular distillery.
- 10. In the town and island of Bombay both the ordinary Central Distillery system as described in paragraph 4 of this Appendix and the Madras "Free Supply" system are in force, the former being applied in the case of spirit distilled from toddy and the latter in the case of spirit distilled from mohwa.

The System of Monopoly Supply.

11. The Madras "Monopoly Supply" system resembles those described in paragraphs t and 8 of this Appendix in keeping the right of manufacture and of sale distinct and in the regulations regarding sale, but differs from them in that a monopoly of the right of manufacture for the supply of a certain area is granted. The grant of the monopoly is determined by tenders; the rate at which the manufacturer is to supply liquor to the licensed vendors is fixed, and the monopoly is given to the tenderer who agrees to pay out of that charge the highest sum to the Government as still-head duty. The monopolist distils in his own private distillers as under the system described in paragraph 8. This system now prevails only in a few districts of Madras.

The Guaranteed Minimum System.

- 12. The next form of the Central Distillery system which we shall describe is that which has letely been introduced in the greater portion of the Bombay Presidency, though modifications of importance are now being made, which are likely to be made applicable universally. Under it, the right of manufacture and of sale are disposed of together, being granted to a monopolist for a district or smaller aren: the monopolist is required to manufacture in a distillery maintained by the Government under the supervision of the excise establishment, the cost of which he is required to pay: on each gailon of liquor issued from the distillery he pays the fixed duty prescribed for the district: the number and locality of the shops at which he may sell the liquor he manufactures are fixed: and limits for the retail prices to be charged at those shops are fixed by the Government: the grant of the monopoly is in most districts determined by tender, the subject of tender being the number of gallons on which the tenderer will undertake to pay still-head duty: the successful tenderer is required to pay the still-head duty on that number of gallons in any case, and on any number in excess of that which he may actually issues.
- 18. The system is in force in Ajmere as well as in most of the Bombay Presidency. It was also in force for several years in a large part of Madras, but it has now been superseded there chiefly by the system described in paragraph 8 of this Appendix.

The Modified Distillery System.

14. Another form of the Central Distillery system is one under which a monopoly of the right both to manufacture and to sell liquor is granted, but instead of guaranteeing the pavment of duty on a minimum number of gullons, the tenderers offer to pay a lump sum 1.3

addition to the fixed duty on each gallon, and the monopoly is granted to the highest tenderer: in other respects the conditions are generally as stated in paragraph 12.

15. This system is in force in a few districts of Madras. It was also that which was introduced in a very few places in the North-Western Provinces under the name of the "Modified Distillery System;" but after the experiment known by that name had been tried for a few years and found unsatisfactory, the Bombay condition of a minimum guarantee was added in most of the few places in which the system was allowed to continue.

Experiment in Thana and Kulaba.

16. A system similar to that of paragraph 14, called the "extra percentage" system, was tried for two years in two districts of Bombay—Thana and Kolaba. There, instead of the tenders being for the payment of a lump sum, they were for the payment of an extra duty per gallon. The upset rates of duty in those districts were fixed at a high figure, and the rates were increased so much by competition in the tenders for the "extra percentage," that the high price of liquor led to a great increase in illicit distillation, and the excise administration of the districts was thrown back to the level of many years ago: the experiment has been abandoned and the "minimum guarantee" system introduced with the modification that the amount guaranteed is not fixed as the result of public competition.

The Tree-tax.

17. In Madras and Bombay, where spirit is distilled to a great extent from toddy—the juice of the palm-tree—there is a tree-tax on every tree which is tapped for distillation, as well as a direct tax on the quantity of liquor distilled.

The Contract Still System.

18. A system which may be described as lying in the middle land between the Central Distillery system and the Outstill system, but which is closer to the former than to the latter, is that known as the "Contract Still" system in the Central Provinces. A distillery is maintained by the Government, and any approved person is allowed to set up a still of a known capacity in it, being required to manufacture under a limited supervision by the excise officers, and to pay a fee, proportioned to the capacity of the still, for each day it is used. The right of sale in the area supplied from a contract still is disposed of separately in the same manner as under the Central Distillery system of the Central Provinces.

19. In one small tahsil in the Punjab a system, bearing a great resemblance to the Contract Still of the Central Provinces, has just been introduced. A full description of this with the reasons for the step, is given in extract (14) of Appendix D. The right to manufacture spirits for the tahsil has been sold to a monopolist for a fixed sum, which entitles him to manufacture a certain quantity of spirit—the quantity estimated as the consumption of the area—licit and illicit—in the last few years: for any liquor distilled in excess of that quantity he will be required to pay a fee for each time the still is used. The right of sale is disposed of separately in the manner usual in the Punjab.

The Farming System.

20. Under all the systems in group B, mentioned in paragraph 8, the right of manufacture and of sale are disposed of together. Originally an unrestricted farming system prevailed in India, and the monopoly of manufacture and sale in a certain area was granted in return for the payment of a lump sum, the monopolist being allowed to manufacture how and where he pleased, to open as many shops in any location he desired, and to sell at such prices as he chose. This system does not now exist, and has not existed for many years, in any part of British India.

21. Wherever the farming system is now in force in British India the number and location of the shops and stills is fixed before the contract is disposed of, and the right to manufacture and sell liquor in a defined area is sold by auction or by public tender: sometimes maxima and minima retail selling prices are fixed: in some places also the strength of the spirit which may be manufactured is defined and the amount manufactured and the consumption are recorded. This system is in force in some districts of the North-Western Provinces and Oudh, in a few districts of Madras, and in still fewer districts in Bombay, in which last, it is known as the "outstill" system.

The Outstill System.

22. Next comes the Outstill system properly so called. The difference between this and the Farming system, described in the preceding paragraph, is that each still, usually with one shop only attached, but sometimes a slightly larger number, is disposed of separately. The

right to manufacture at the outstill and to sell the spirit there manufactured is sold by auction to the highest bidder. And in the original form of this system the control over the monopolist is confined to ensuring that he manufactures and sells only at the places mentioned in his contract. This system is in force in Assam, Burms, and part of the North-Western Provinces and Oudh, and till recently it was the system which prevailed most extensively in Lower Bengal.

23. But wherever it is still considered necessary to maintain the outstill system, the attempt is being made to subject the licensee to greater restriction and more control than exists in the simplest form of the system. A description of the more important of the measures designed to effect this will be found in Chapter X of the Report of the Bengal Excise Commission: they are chiefly the limitation of the capacity of the fermenting vats and stills and of their total annual conturn, the regulation of the strength of liquor manufactured, and the enforcement of minima retail prices. In Bengal this regulated system is being annually extended, and the number of places in which the less satisfactory system described in the last paragraph prevails will be gradually reduced until it disappears altogether. The other Governments, in whose jurisdiction the outstill system is still a necessity, are also considering the possibility of introducing similar improvements. The outstill system in force in two tabsils of the Kangra district in the Punjab is of this regulated kind rather than of that described in the preceding paragraph.

APPENDIX H.

SKETCH OF THE HISTORY OF EXOISE ADMINISTRATION.

1. On the subject of excise before the days of British rule the information is scanty. But there is enough to show both that the habit of drinking, and even excessive drinking, was not unknown, and that the native rulers realised revenue from excise. It would serve no useful purpose to go deeply into the history of the pre-British period, but one extract is given which is in point. It is from a translation from the Tarikh-i-Firux Shak (History of the reign of the Emperor Firuz Shah), published in Volume XXXIX of the Journal of the Asiatic Society.

"After several days' and nights' deliberation the conclusion arrived at by these councillors was, that the cause of the revolts was comprised in four things;

Secondly, wine, for people are in the habit of having parties for the purpose of wine-drinking when they disclose their most secret thoughts to each other, make confederates and hatch conspiracies;

[Thirdly, with the view of preventing revolts in future, the drinking and the sale of wines were prohibited. Afterwards the Sultan also prohibited bagai and hemp (bhang), as also gam-Great exertions were made to carry out the prohibition of the sale of wine and bagui, and special wells were constructed to serve as prisons. Drunkards, gamblers, bagui-vendors were driven out of the city into the country, and the enormous taxes which the State had derived from them had to be struck off the revenue books. The Sultan, first of all, gave the order to remove from the social assembly-rooms of the palace all decanters, ma'baris, the porcelain vessels painted with gold, and the glasses and bottles. All were smashed, and the broken bits were thrown in heaps before the Badáon gate. The bottles of wine were also taken from the assembly-rooms and poured out, and the quantity of wine thus thrown away was so great that pools and puddles were formed as in the rainy season. The Sultan Alauddin also discontinued his wine assemblies, and he told the Maliks to mount elephants and go to the gates of the city, and into the streets and the districts, the bazars and sarais, and proclaim that it was his order that no one should drink or sell wine, or have anything to do with wine. people gave up wine-drinking as som as the order was published, but shameless ill-disposed wretches, pimps and panderers, erected stills (Hind. bhatti), and distilled spirits from sugar and drank and sold wine in secret; or they filled leather bags outside the town with wine and put them between loads of grass or fuel, or had recourse to other tricks of conveying wine into The spies made strict inquiries, and the guards at the gates and the runners (harid) posted there examined every one, and seized the wine and the owners and took them before the palace. It was then ordered to give the wine to the elephants of the Imperial stables to drink; and such as had sold it, or smuggled it into the city,"

put into prison, where they were detained for some time. But us the number of the prisoners increased very much, they made wells before the Badáon gate at a place where all people pass by, and into these wells all were thrown that drank or sold wine.]

"Some from the distress and misery they suffered in the wells died there, while others who were released after a time, came out half-dead, and it took ages for them gradually to recover their health and pull up strength. Many, therefore, through fear of imprisonment abjured the use of wine, and if they were unable to control their appetities they used to go [to the fords] of the Jamna, and the villages ten or twelve kos off, and drink it there. In Chiaspur, however, and Indarpat, and Kilukhari, and the villages four or five kos away, as well as in the sarais outside the town, the sale and purchase of liquor was no longer feasible. It is nevertheless certain that some reckless individuals continued to distil wine at their own houses, and to drink and to sell it, and ultimately suffered disgrace and infamy, and were cast into

"When the prohibition of the use of wine began to press too severely, the Sultan gave orders that if any one distilled spirits privately, and drank the liquor in seclusion, without having a party or assembly and without helling it, the spies were not to interfere with him nor enter his house nor apprehend him."

A tax on spirituous liquors appears among the lists of taxes of the Muhammadan period.

- 2. This extract and others which could be made from Muhammadan historians show that at times drinking prevailed even among Muhammadans, and that revenue was derived from the taxation of it. As to Hindus and the period of Hindu rule, there is similar evidence, for which we may refer to paragraph 7* of the Report of the Bengal Excise Commission, where authorities are quoted to show "that spirits and other intoxicating drinks have been extensively used in India at all times and by all classes," and that the practice was made a source of revenue in Hindu India:—
- * "7. The use of spirite among the ancient Hindus.—Dr. Rajendralala Mitra, in a very learned and interesting paper contributed by him to the Asiatic Society's Journal, Volume XLII, Part I, for 1878, shows conclusively by a prefusion of instances taken from

Sansorit literature, ancient and mediaval, that spirits and other intoxicating drinks have been extensively used in India at all times and by all classes. He states indeed that their use had been condemned by moralists and lawgivers, but he proves that rice-spirit was sold and drunk and used in sacrifices in the earliest Vedic times; that the leading characters of the Mahábhárat were addicted to strong drinks; that the Rámáyana frequently notices spiritdrinking with evident approbation; that in the time of Kálidása drinking seems to have been very common not only among men, but even among women of high rank; that the Puranas abounded in descriptions of spirits and of drinking; and that the Tantras afford the most indubitable proofs of a strong attachment on the part of a large section of the Hindus to overindulgence in spirituous drinks. He also gives descriptions of the different kinds of spirits, of the materials from which they were made, and of the manner of making them, which will be referred to in succeeding parts of this report. He does not, however, write on the question of their being made a source of revenue in Hindu India, understood that he is of opinion that they were not taxed. Other authorities, however, of great weight are of a contrary opinion; but there seems to be no direct evidence on this point beyond the alleged fact that all articles sold in shops were subject to taxation. in the Buddhist drama Naga Nunda there is mention of a spirit-shop, and there are similar references by Kálidas and elsewhere noticed by Dr. Rajendralala. There are also many references to the use of spirit in Buddhist works, and it was stringently prohibited in Buddhist Reference to the subject will be found in Hodgson's Languages, Literature, and Religion of Nepaul and Thibet; in Spence Hardy's Eastern Monachism; in Bishop Bigandet's Life or Legend of Gautama; and in the second volume of Burnouf's Lotus de la Bonne Loi."

Bengal. 3. In Bengal, in the period immediately preceding British rule, the tax on spirite and drugs was for the most part levied, like other taxes, through the agency of the zemindars or tax farmers; and the Bengal Excise Commission recorded their opinion that under that system "it is probable that there was a practically unrestricted system of outstills paying very low rates in many places." In other words, the system which the British Government found universally in force in Bengal was the worst form of the most inefficient system that has ever prevailed in the country. This system was necessarily continued for some time under British rule: under it the price of spirit was less than it has ever been anywhere in Bengal since the modern excise system was introduced in 1790, and complaints were then rife about the

spread of drunkenness among the lower classes of the people.

4. In 1790 the Bengal Government determined, on moral grounds, to resume from the zemindars the right of collecting duties on spirits and drugs, the immoderate use of spirituous liquors and drugs, "which had become prevalent among many of the lower orders of people owing to the very inconsiderable price at which they were manufactured and sold previous to 1790," being stated in the preamble of one of the Regulations as a reason for the new rules. This was the first step taken in the direction of reform, and the ground then gained has never been lost, as the number of shops has since that date been always limited by Government and not left to be settled as caprice or the capidity of individual land-owners dictated. The Regulations issued between 1790 and 1800 prohibited the levying of a tax on the manufacture or sale of liquors except on the part of Government, and manufacture or sale without a license from the Collector: a daily tax was levied on each still, and the officials were instructed to reduce as much as possible the number of licenses, and to fix on stills the highest rates which could be levied without operating as a prohibition. The system thus introduced was the outstill system of paragraph 22 of Appendix G: each license was for one still only.

5. In 1813 an attempt was made to introduce central distilleries in large towns, outstill licenses being prohibited within eight miles of any such distillery. Twenty-one central distilleries were opened; but after a few years' experience the opinion was formed that the measure had not in general been productive of the advantages expected to be derived from it, and the distilleries were closed in all districts except five.

6. After 1824 the farming system, with apparently the restrictions mentioned in paragraph 21 of Appendix G more or less strictly enforced, was tried, and the system was extended

to nearly the whole province.

7. This in its turn was found to be open to objection, to lead to an encouragement of consumption, and to involve a sacrifice of revenue, by which the farmer alone benefited; and from 1840 changes were introduced which resulted in the general re-introduction of the outstill

system except in a few places where central distilleries were continued.

8. In 1856, by Act XXI of that year, the Excise Law of Lower Bengal and the North-Western Provinces was consolidated and amended. The manufacture of spirit after the English method was confined to duly licensed distilleries, and the rate of duty on such spirit was fixed at one rupee a gallon: the customs duty on imported spirit was then H1-8 a gallon. Collectors were to issue licenses to any person for the manufacture of country spirit: they ware also authorised to establish distilleries for the manufacture of country spirit and to fix limits within which no liquor, except that manufactured at such distillery, should be sold, and no stills established or worked. There is no mention in the Act of the levy of a fixed rate of duty per gallon on the produce of such distillaries; the Boards of Revenue were merely given a general power to prescribe the conditions on which spirits might be manufactured at them The levy of a tax or duty on licenses for retail sale was prescribed, and generally wide powers were given for the restriction and taxation of the trade in spirits and drugs.

9. In 1859 the Government of India suggested to all Local Governments the expediency, on moral and fiscal grounds, of extending the Central Distillery system, with a fixed rate of duty per gallon, to many populous localities, if not universally. The Bengal Government adopted this view, thinking that the measure would render it possible to increase the rate of tax and discourage consumption. The system was accordingly introduced almost universally throughout the province in the next few years, the objections of local officials that in many

places the system could not be worked successfully being overruled.

10. Before the end of the decade numerous objections to this wholesale measure were forced on the attention of the Government, and in 1874 several memorials praying that steps might be taken to counteract the growing increase of drinking and drunkenness were received. The objections to the universal adoption of central distilleries were so strong that it was decided to re-introduce outstills in certain places; from 1871 steps in this direction were taken, and after 1877 the reaction was carried to very great lengths, and outstills again became the general rule, central distilleries being the exception.

11. A few years' experience of this system proved that while it was not open to the objection of forcing the people to illicit practices, it was open to that of insufficiently discouraging drinking, as, in some cases, it admitted of liquor being sold at very low rates. This consideration led to the appointment of the Bengal Excise Commission, and since the Report of that Commission was received the Government has been engaged in correcting the evils arising from the excessive reaction in favour of the outstill system: the Central Distillery system is being re-introduced wherever there is a prospect of its being worked with satisfactory results: and the measures for regulating outstills recommended by the Commission are being

adopted.

12. This brief notice of Bengal is sufficient to show that since 1790, when the worst conceivable system existed, having been taken over from the previous Native Government, attempts have been continually made to introduce the sounder and more scientific practice of levying a fixed duty on each gallon of spirit, and that the errors committed have generally been the introduction of reforms in too great haste, and the consequent reaction and reversion to stricter systems which invariably followed. The question of the comparative merits of the central distillery and the outstill in particular localities is one on which there may be, and is, great difference of opinion, because their relative advantages cannot be tested by figures. The danger of the immediate future is that the reaction against the outstill system may now be carried too far. But one branch of the excise question refers to the number of shops, and the rates of duty. If the number of shops has not been increased, and the rates of duty not lowered, still more if the number of shops has been reduced and the rate of duty raised wherever a fixed duty is levied, it will be clear that in these respects at least there has been no relaxation in the restrictions on drinking.

13. The number of shope for the sale of all kinds of liquor and drugs are shown in the following table for each year since 1870:—

					Distilled liquor. of all kinds.	Druge.	Tari.	Pachwai
1870-71 .					8,193	15,565	21,670	1,687
1871-72 .					8.937	16,615	21,689	1,818
1872-73 .					7,271	17,119	22,351	1,844
1873-74 .					6,812	10,976	22,873	2,006
1874-75 .					6,152	9 240	19,424	1,863
1875.76 .		0		a	8.294	7.424	19.265	1.661
1876-77 .	4		0		5.183	7.092	18,844	1.677
1877-78 .					5.267	7,248	19,077	1,717
1878-79 .				- 0	6.751	6,999	19,048	1.789
1879-80 .				4	6.878	6,877	21,579	2,066
1880-81 .					7.369	7,145	25.563	2,034
1881-82 .					6.874	6,796	30,288	2,135
1882-83 .					5,634	6,499	30 311	2.159
1883-84 .					5,740	6,513	20,138	2,259
1884-85 .					5,502	6.291	19,577	2.148
1885-86 .				. 1	5,298	6,005	19,555	2,183
1888-87 .					6.310	5,928	19,471	2,195
1887-88 .					6.112	6,059	19,051	2,157
1988-89 .			4		4 539	6,002	18,467	2,203

14. From the above it will be seen that there has been on the whole a decrease in the number of shops for the sale of distilled liquor—the shops for the sale of Central Distillery spirit, outstill spirit, spirit manufactured after the European methods, and foreign imported spirit being shown together,—and that since 18×0 the decrease has been steadily progressive: the number in 18×7-88 was 4,539 against 7,369 in 1880 and 8,937 in 1871.

15. It has not been considered necessary to reduce, in the same degree, the number of shops for the sale of the less noxious fermented drinks, tari, and pachwai: the number of shops for the sale of tari appears large, but many of them are for the sale of fresh unfermented toddy, a drink which we should not consider it necessary to subject to any regulations were it not that it ferments in a few hours, and after it has been drawn for 24 hours, contains a considerable percentage of alcohol.

16. The decrease in the number of shops for the sale of drugs has been even more striking than in that of liquor shops, the number being 6,092 in 1888 against 15,565 in 1870 and 17,119 in 1872. The increase in the last two years is apparent only, as it is due to licenses to druggists to sell opium for medicinal purposes having been included in the number of opium shops for the first time in 1887-88; the number of those licenses was 384 in 1887-88 and in 1888-89.

17. The rates of duty vary in the different districts in Bengal. A statement of the variations in the several districts will be found in Appendix F. An examination of that statement will show that it may be broadly stated that in Bengal the rates of duty have been doubled since 1870.

BOMBAY.

Presidency do not show that any revenue was derived by the State from sale of spirits. But there are entries in the accounts of the middle of the eighteenth century showing that taxes were levied on the manufacture and vend of spirits in certain villages and subdivisions; and from the accounts of subsequent years, it appears that in almost every district spirits became by degrees a source of revenue to the Government, or of income to the Peshwa's officers. In some districts the monopoly of manufacture and sale was let in farm; in others—chiefly the districts on the coast, where spirits were considered a necessary of life to the cultivator, and the number of shops was very large—a tree-tax or still-tax and a shop-tax were levied. There is record of total prohibition in two districts only, Poona and Nuggur, and in them the prohibition would appear to have been confined to the two cities only. The revenue derived from spirits by the Peshwa was never large, but it increased steadily till the fall of the dynasty. Drunkenness was a criminal offence, and even moderate drinkers were also punished if their caste rules forbade such indulgence.

19. In the portion of Bombay acquired by the commencement of this century, the tree-tax m date and brab trees in force under the Peshwa's rule was continued, as was also the farm of the monopoly for the sale and manufacture of mowra spirit, toddy spirit being included in the same monopoly. As it was found that the consumption of spirit increased under this system, a daily tax system was introduced in 1808 in Salsette and Surat, under which a tax was levied on each still, the distiller having the right both to manufacture and to sell, as under the Bengal outstill system. Difficulty being encountered in bringing every still under the operation of the law, in 1816 the Central Distillery system was introduced in Salsette (with a duty of four annas a gallon) and in the city of Surat (with a duty of R20 per six manuals of material), while outside the city the farming system was reverted to. The Central Distillery system has been continued at Surat ever since; but in the other places where it was introduced it was abandoned in 1827 in consequence of the expenditure on the numerous distilleries being found to be too great to admit of their continued maintenance.

20. In the territories which were added to Bombay at a later date, the farming system was found in force, except in some of the coast villages of the Southern Concan; and it was continued. Central distilleries were, however, opened in the cities of Ahmedabad and Broach.

21. In 1827, Regulation XXI, which remained in force, supplemented by other laws, till about twelve years ago, was passed. The first measure attempted under that law was the levy, in the tracts of the Northern and Southern Concan, on the coast, of an impost of eight annae a gallon, the right to collect the duty being let in farm. The Bhundarees (hereditary distillers) resisted this by a general strike, and were successful. The impost was abandoned, and from 1829 the Bhundarees were merely required to sell the liquor they distilled at a fixed price to the farmer, who had the monopoly of retail sale. In one of those tracts, Ganjam, a system called the "outhputtee system" sprang up: under it the farmer levied from the Bhundarees a tax which varied according to the number of trees tapped; the Bhundarees had then the right to distill and sell without further restriction.

22. The excise arrangements introduced under Regulation XXI of 1827 stood as follows in 1832:—

Central distilleries were maintained to the cities of Ahmedabad, Broach and Surat, a fixed

duty per gallon being levied.

In districts where cocounut, brab and date-trees did not grow, and in the portions of the Surat district where these trees grow, the right to manufacture and to sell spirits was farmed, the monopoly including in Surat the right to purchase toddy extracted by the Bhundarees.

In other districts where these trees grew, except the sub-divisions of Gaujam and Barkote, the monopoly of the retail sale of spirits and of the right to purchase spirits manufactured by the Bhundarees was farmed.

In Ganjam the "outhputtee" system above mentioned prevailed. In Barkote a ground-rent on all trees tapped for distillation was levied directly by Government officials.

23. A central distillery was opened at Kaira in 1884-35.

24. From about that year excise questions received more general consideration than before, and in 1837 a Committee was appointed to advise the Government on the steps to be taken to improve the excise administration. The Committee was unable to propose any general scheme which would be an improvement on the farming system, and recommended its continuance with modifications, such as reducing and limiting the number of shops and stills and the freeing raw toddy from any tax except the ground-rent on the trees. The Government reiterated, and called the attention of all officers to, the principle that any loss of revenue should be cheerfully borne if any means could be devised for restricting the consumption of spirit without encouraging smuggling. Many schemes were brought forward, the grant of the farms to men whose morals and philanthropy were to be the guarantee that they would not force consumption being actually tried; and the general establishment of central distilleries was especially considered: the theoretical soundness of that system was admitted, but it was held that its introduction was impracticable.

25. In 1852 an Act was passed to remove the most prominent defects of the Regulation of 1851, and a general power was given to the Government to introduce any system where local circumstances required special treatment. The Revenue Commissioners were requested to submit a report detailing the arrangements necessary to give effect to this law; and they submitted two reports—the first in 1852 and the second in 1855; they recommended the general continuance of the farming system and framed forms of licenses and passes in which were embodied various restrictions and conditions. The recommendations were accepted by the Government, and the letting of the farms by sub-divisions or districts (the farming system of paragraph 21 of Appendix G) was declared to be preferable to letting them by single stills or shops (the out-still system of paragraphs 22 and 23 of Appendix G). This system was accordingly adopted in most places, though in some the Collectors found it so unsuited to local circumstances that they continued their previous special arrangements.

26. In 1854-55 the central distillery at Kaira was closed. In 1856 distilleries for the manufacture of spirits intended for transport to other districts were opened at Bhandoop and Caranja. In 1857 the Government declared its future policy to be the letting by auction of each shop, with its still, separately. In 1859 the duty at all the central distilleries was

raised to one rupes a gallon.

27. In 1864 the Government appointed a Commission to collect information on the subject, to propose a policy having for its primary object the check of intemperance, excise being regarded as a source of revenue to be increased only so far and by such measures as are clearly not calculated to stimulate artificially and by State agency the use of intoxicating liquors and drugs. The place of the Commission was ultimately taken by an officer on special duty, Mr. Bell, who presented his report towards the end of 1869. The discussions thus begun in 1884 lasted several years, and though in the interim Act IX of 1867 was passed to regulate the excise administration of the Town and Island of Bombay, and various improvements were introduced in different districts, the farming system continued to be that generally in force up to 1878. In 1875 or 1876 the discussions began which ultimately resulted in the passing of Act V of 1878. Under that Act and with a separate Abkari Department, the system has been revolutionised, the old farming system abolished nearly everywhere, and the central distillery system, in the form described in paragraph 12 of Appendix G, with high rates of duty varying in each district and which have been increased from time to time, introduced in its place. Reforms are still being vigorously introduced in the Bombay Presidency, and there the general complaint of the people is not that the administration encourages drinking, but that it is too severe in its restrictive measures and enhances the price of liquor to a height which the distillers and the people resent.

28. The following table shows the number of shops in Bombay for a series of years:-

									Distilled Liquor of all kinds.	Toddy,	Drage.
1874-75	٠		4			٠			3,882	1,137	100
1875-76					٠	٠			8,819	1,226	
1876-77			٠		٠				3,876	1,271	***
1877-7H			٠	•		•			3,788	1,294	1,273
1878-79						٠	•		1,978	394	1,350
1879-80	•						٠	٠	3,296	553	1,322
1880-81		•						٠	3,436	657	1,296
1881-82			٠	*	٠	٠			3,499		1,320
188#-83					٠				8,149	913	1,274
1683-84			٠						3,568	1,201	1,264
1884-85		*		٠	4				3,440	1,076	1,292
1885-96			4						4,667	1,326	1,290
1886-87					٠				8,677	1,241	1,306
1887-88		•	a				٠		3,348	1,681	1,295

29. It will be seen that while the number of toddy shops for the sale of fresh and fermented toddy has increased, and that of drug shops has remained steady, the number of liquor shops has on the whole been decreased.

30. As in Bengal, the rates of duty in Bombay vary in each district. A statement of the progressive increases in the rates we therefore refer to the enclosures of the Bombay Government's letter appended to this Despatch. It will be seen that ever since 1877 the Bombay Government has been steadily raising the rates of duty as circumstances permitted towards that fixed for imported spirits by the Tariff. The increases are of more importance than in Bengal, because the area covered by the Central Distillery system is much larger; in the period for which figures are given nearly the whole of the Presidency has been brought under that system, and the Farming system abolished.

PUNJAB.

31. In the Punjab during the Sikh times there was no regular Excise system. There was nothing resembling still-head outy, but a duty was levied in many places in the shape of license fees. In rural circles there were no licensed monopolies for the sale of liquors, and any one who wished could distil liquor at his own house without let or hindrance. For minor shops no duty was levied; but in large cities an annual fee was levied for distillation and sale. For these fees there was no fixed scale; they were fixed and levied by the local officials. The Sikh Chiefs were allowed to distil liquor in their own houses for themselves and their dependants and were not required to pay any duty or to obtain permission even at the larger stations. In 1848 the Resident at Labore issued general orders requiring the sale by auction of the excuse contracts, and for some years after the annexation of the Province, the Farming system was in force throughout it. -In 1862, 1863, and 1864 the Central Distillery system was introduced in every district, and has, with the slight exceptions noticed in the next centence, been continued ever since, the rates of duty being mised from time to time, till now the rates are higher than in any other province-so high that there exists in the Punjab a very considerable amount of illicit distillation, which now forms the main difficulty of excise administration in that province. The exceptions mentioned are a small portion of the Kangra district, in which a regulated outstill system has been in force since 1884, and one tabsil of the Gurgaoa district, where the system described in paragraph 19 of Appendix G has this year been brought into force. 2.8

0.3	The fellowing	are the numbers	of shops in	the Punjal	in each	year since	1870:-
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											Distilled Liques of all kinds.	Dyugo.
	1870-71										1,043	463
	1871-72	٠	•			-					1,048	\$(H)
											1.110	576
	1873-73			•	*	•					1,061	728
	1873-74			4		*					1,126	1,098
	1874-75						*			-	1,143	1,902
	1875-76	•	4								1,215	1.764
	1876-77	0		4		*	*			-	1,249	1.850
	1877-78			4	4		+				1,263	2,111
10	1878-79				4		*	0	*	- 1		2,150
	1879-80				0	4			10	- }	1,349	
	1880-81							4	9	•	1,452	2,111
	1881-92							•			1,591	2,059
	1882-83							4			1,540	2,081
	1883-84										1,635	2,167
	1884-85				0						1,624	2.120
	1885-96	*			4						1,686	2,695
	1866-87		•								1,723	2,220
	1887-88	*				•	-				1.447	3,500
	1888-89			,	*						1,604	3,639

33. The increase in 1887-85 and the following year is apparent only, as previous to that year it had been the custom in many districts to include in the returns the number of leases only, although some of them might include more than one shop. In that year instructions were issued to ensure that the returns showed correctly the number of separate shops. Nevertheless, on the whole, in this province the number of shops has increased. The explanation of this is that the central distillery system with very high rates of duties prevails throughout the Punjab: illioit distillation consequently prevails in that province to a very great extent, and is probably more rife than in any other Province in India. The increase in the number of shops has been allowed as one of the means employed in attempting to cope with the evil. In numerous passages in the Excise Reports of past years, the reason assigned for the establishment of new shops is that just mentioned. There is no doubt that the maintenance of the strict system and high rate of taxation in the Punjab necessitates the grant of licenses for a larger number of shops than would otherwise be required.

34. On the introduction of the central distillery system into the Punjab in 1862 the rates of still-head duty were fixed at—

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H2 per gallon for spirit of the strength of London proof.
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In 1%63 these rates were raised to-

R2-8 per gallon for spirit of the atrength of London proof.
R2 25° under proof.
R1-8 50°

In 1865 the rates were increased in the Rawal Pindi and Multan Divisions and the Hazara Districts to-

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R3 per gallon for spirit of the strength of London proof.
R2-8 ... ... ... ... ... ... 25° under proof.
R2 ... ... ... ... ... ... 50° ... ...
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In 1977 these higher rates were extended to the whole province with the exception of the Umballa and Hissar Divisions, which adjoin the North-West Provinces. There has been no change since. The levy of license fees for sale in addition to the still-head duty raises the total taxation of country liquor per gallon to a very high figure in the Punjab.

MADRAS.

35. In a minute by Sir Thomas Munro, dated 1807, in which he discussed the respective merits of the farming and the outstill systems, it is stated that arrack "has for ages been manufactured and sold in all places subject to no other restraint than that of taxation."

36. When the territories in Madras came under British administration the system found in force was the farming system, apparently quite unrestricted, the farmer having merely to pay his yearly rent and being left from to manufacture as he pleased and to establish shops in such numbers and in such places as he thought desirable.

37. The farming system was continued by the early British administrators. It is not clear how soon restrictions as to the number of shops, and in other respects, began to be

imposed, but in the early years of this century considerable discussion took place regarding racine regulations. In 1803 the question arose whether the Bengal system of licensing and taxing each still separately was not preferable to the farming system, and whether the direct management of the revenue would not be preferable to either of those systems, involving, as they did, the letting in farm of the revenues. The Board of Revenue and the Government of Madras considered that the objections based on general principles to farming the revenues did not apply " to the renting, as in the present case under restrictions an article of luxury by no means necessary, nay even detrimental, to the public weal." It was declared that the object held in view was "to restrain and regulate" the consumption of liquor, and the opinion was expressed that the health and good order of the people, which were objects of far more importance than the augmentation of revenue, would be more surely promoted by the farming than by the outstill system. The result of the discussions was the passing of Regulation No. I of 1808, 1t provided that the exclusive privilege of manufacturing and selling arraok should be farmed in each district, and that the places at which distillation and sale might take place should be determined by the Collector. The separate licensing of each still was also authorised as an alternative; and Collectors were recommended by executive instructions to try both plans in different parts of their districts The second plan, the outstill system, was tried in a few districts but soon discontinued, and in 1815 the farming system, restricted and regulated according to the directions in the Regulation, was in force throughout the Presidency except in the town of Madras, where a special system of direct management was maintained.

38. Regulation I of 1800 amended the law by anthorising the treatment of toddy and other fermented liquors in the same way as spirits by allowing Collectors to retain the manufacture and sale under direct management, where that was deemed preferable to farming, by providing penalties for breaches of the rules, and by giving more extensive powers to the Board of Revenue to frame rules for the regulation of sale and for all details of management and control.

39. This law remained in force for over forty years, and under it the farming system was universal with the exception of the town of Madras, regarding which a special Act was passed in 1852. In 1841 proposals to raise the rates of taxation were discussed but ultimately abandoned, district officers being merely enjoined to enforce strictly the prescribed minimum retail prices.

40. In 1864, Act III of that year was substituted as the Excise Law of Madras. The two main alterations were the grant of power to levy an excise duty on the quantity of liquor manufactured instead of an annual payment for the farm, and the conservation of the right to suppress the home manufacture of fermented toddy where that privilege was likely to be used as a cloak for illicit sales or distillation.

41. In 1869 the power conferred by the Act of 1864 was brought into operation in one district, and the monopoly of Ganjam was given to a contractor with the condition that he should pay a fixed duty on every gallon issued. This system was continued in Ganjam and extended to four other districts three years later. In the later contracts for these five districts the condition known as that of a "minimum guarantee" appears, at first assuming the form that if the duty realised did not reach a certain sum the Government should have a right to cancel the contract, and subsequently in the form in which it was afterwards adopted in Bombay, namely, that the monopolist undertook to pay a certain minimum sum as duty, even though the issues were of a quantity on which a smaller duty was payable.

42. In 1874, an officer was placed on duty to prepare a complete report regarding excise matters and to make recommendations for the improvement of the existing system. In 1875 the system just described was further extended to about half the districts of the province (the spirit monoply being at the same time separated from that for fermented toddy), and it was further extended up to 1885. In this period it was found that illicit distillation prevailed, and that, owing to the absence of competition and the concentration of the business in the hands of a few rich firms and to the contractors being entrusted with all the preventive arrangements, the system was not a great success, and was open to improvement in several important respects. A Committee was appointed to report on Excise in 1884, and the subsequent excise measures in Madras have been based on the recommendations of that Committee.

48. From 1st October 1884 the system last described gave place in every district in which it was in force except one to that described in paragraph 11 of Appendix G, under which the monopoly of manufacture was let separately from that of sale, the former being granted on condition of payment of a fixed duty per gallon and that liquor should be supplied to the shops at a fixed maximum rate, and the right of sale being given on payment of a fixed fee per shop, or number of shops, or on payment of a fee determined by auction. After a

short trial this gave way to the system described in paragraph 8 of Appendix G under which no monopoly of manufacture is cetablished. The law was amended by the enactment of Act 1 of 1886. Under the powers taken by it a Commissioner of Abkari was appointed, and reforms have ever since been vigorously pushed, the general tendency being to extend the system lust mentioned.

44. The following table shows the number of shops in Madras in each year from 1878:-

					Of all kinds.	Toddy.	Druge.
1875-76					20,968	10,761	***
1876 77					17.205	R89,05	
1877-78					18,923	19,645	***
1878-79					16,785	18,844	* * *
1879-80					16,298	16,326	404
1880-81					15,321	16,N54	1,23
1881-82		4			16,639	18.540	1,020
1882-83			,		18,072	18.231	1.09
1883-84					17,870	18 727	1,113
1884-85					19,970	19,569	1,10
1885-86					22,201	14,214	1.073
1886-47					27,566	15.933	1,17
1887-88					21,021	22,549	1,17

45. The rates of duty in Madras also, as in Bengal and Bombay, vary in different districts. Moreover, in that Presidency the change of system which took place in 1854 renders deceptive a comparison of the fixed rates after that date with those before it; because before 1884 no separate licensee's fees were levied in addition to the still-head duty. The comparison in that province must, therefore, be of the total incidence per gallon of the fixed duty and license fees combined. The information is given in the enclosures of the Madras letter appended. It will be seen that the incidence has considerably increased.

North-Western Provinces and Oudh.

- 46. The early history of excise in the North-Western Provinces is the same as that in Bengal, the two Provinces being under the same Administration till after 1832. The farming system, which was found in operation when the territories came under British rule, was continued, restrictions in the number of shops, and in regard to other matters, being introduced and made more stringent from time to time. Between 1813 and 1824 the Central Distillery system was tried and considered to be unsuitable. The "Directions to Revenue Officers," issued in 1838 after the separation of the Province from Bengal, mentioned the Central Distillery system as an alternative to the farming system : Act XXI of 1856 also authorised the establishment of that system; but it was not introduced anywhere. And in 1859 the Local Government, in reply to the reference from the Government of India, opposed the reintroduction of the Central Distillery system on the grounds that it had failed when tried before, and that the existing systems secured as high a duty as could be obtained without forcing consumers to illicit practices or unduly encouraging consumption. The systems then in force in the North-Western Provinces were the licensing of single stills, and also of shops on payment of fees fixed by the Collector; and the farming of manufacture and sale usually for one year for sub-divisions—the farm of a whole district was seldom resorted to-on payment of rente fixed by public tender : Collectors had discretion to resort to auction instead of tenders, but this discretion was seldom used. In the neighbouring Province of Oudh, however, after the confusion which followed the annexation of the Province and the Mutiny shad passed away, the Central Distillery system was uniformly adopted from May 1861 in the form in which it still prevails in Northern India : the still-head duty was fixed at RI for spirit of higher strength than 25° under proof and 12 annas on lower strengths : sales were at first allowed on licenses without fees, but fees were subsequently levied.
- 47. The views of the North-Western Provinces Government altered in regard to the Central Distillery system, and that system was introduced in nearly the whole of the North-Western Provinces from May 1858. The rates of duty were fixed at 12 annas a gallon for spirit of lower strength than 25° under proof and one rupes for spirits of higher strength; the subsequent changes in the rates of duty will be shown below.
- 44. The licenses for retail sale were at first sold by auction, and the receipts from this source formed a large part of the Excise Bevenue. In 1867-68 an experiment was tried in one district with the object of allowing the number of shops to be fixed by the ordinary ope-

ration of competition instead of the district authorities: in this experiment the still-head duty was relied on as the main part of the tax on liquor: licenses were granted to open shops on payment of a low fixed license fee at any place for which application was made, except that for police purposes two shops were not allowed within 200 yards of each other. The result was that while the number of shops actually opened was somewhat less than the number fixed as the limit in the previous year by the authorities, the receipts from still-head duty rose from \$20,000 to \$50,000. The inference was that there had been a large sale of illicit spirit on which no duty had been paid under the previous system, and that the effect of unrestricted competition among the shop-keepers when the artificial limitations in their number were removed, was to cause them to sell licit instead of illicit spirit, although as a fact the number of shops was not increased. The next year the Excise Commissioner proposed that this plan should be tried everywhere, and that licenses for shops should be granted at a low fixed fee uniform throughout the Province to all respectable applicants. It was anticipated that the number of shops would increase at first, but that the effect of competition would soon be to reduce the number to that really required for the convenience of the public.

- 49. These proposals were approved by the Government, but with a modification which deprived them of any value they might have by excluding the factor—free competition—which it was hoped would regulate the number of shops in a more effectual and beneficial manner than the local estimate of the requirements by the Collector was capable of effecting. The modification was the restriction of the number of shops to what it was in the previous year. In the next year 1870-71 a change was made, and the following rule laid down:—
- The Collector will fix the number and locality of the different shops, and determine their letting value according to the advantages possessed by each. It is not intended that they should, as a rule, be put up to public competition; but competition may be resorted to by the Collector and taken into account in determining the sum at which each shall be leased. To work this system effectively careful inquiries will be necessary into the amount of liquor sold, the distribution of the drinking population, the price at which liquor is obtainable, and many other points affecting the profitableness of the several localities."
- 50. This rule remained in force for many years, but the difficulties in the way of obtaining accurate information of the kind required to work the rule effectively have led to the reversion generally to the practice of putting up the shops to auction.
- 51. The experience of the working of the Central Distillery system from 1863 to 1870 proved that it had been much too extensively introduced, and that it had been applied in many tracts in which, under the circumstances which existed, its success was almost hopeless. Illicit practices were believed to be largely prevalent in those tracts, and this conclusion was proved to be correct by the comparison of the figures of revenue of the years before and after the farming system was re-introduced in certain districts: large increases in apparent consumption occurred in those places which it was impossible to explain by a sudden and startling change in the habits of the people, and which were explainable only by the existence of illicit practices in previous years.
- 52. In 1873 the Local Government expressed its conviction "that smuggling or the sale of illicit liquor was going on to a very large extent in several districts," and that in some of them statistics "rendered it probable not only that the illicit sale of liquor existed, but that it was on the increase."
- 58. In 1868 the only two tracts not brought under the Central Distillery system were the districts of the Jhansi Division which were surrounded by Native States and the mountainous district of Kumaon.
- 54. After 1871 the Farming or Outstill system was re-introduced successively, for the reasons above indicated, into portions of saveral other districts, the names of most of which will be found in extract (6) in Appendix C.
- 55. In 1877 a Committee was appointed to report on excise matters, and in accordance with its recommendations numerous measures were adopted for the improvement of the administration. A selected assistant was placed in charge of excise in each district, and to reduce the temptation to smuggling and the prevalence of malpractices in issuing spirit at the distilleries, the rate of duty was fixed at a uniform rate of one rupee irrespective of strength. The "Modified Distillery System," described in paragraphs 14 and 15 of Appendix G above, was also proposed, and in the following years was tried in some districts; it was, towever, found to be a failure and has been abandoned in all but an insignificant area.

56.	The number	of shops in	the Nort	h-Western	Provinces	and	Oudh	in each	year :	since
1876-77	are given in	the following	table:	figures for	early years	216	not av	ailable fe	or Ond	h :-

					375	5 43 B		Dist	illed Liquo all kinds.	rof	Turi.	Druge.
TO THE	1878-77 1877-78 1878-79 1878-79 1880-81 1881-82 1882-88 1883-84 1884-85 1885-86 1886-87 1687-86	**************************************		e e	• • • • • • • • • • • • • • • • • • • •		•		7,136 7,388 7,790 8,398 8,799 9,019 9,354 9,935 2,627 8,319 8,212 -5,119		1,470 1,631 2,993 2,638 3,842 4,048 4,084 4,239 4,791 4,102 4,300 4,185	2,918 3,682 3,766 3,752 6,276 6,324 6,877 6,000 6,842 4,667 4,948

The number of liquor shops is now higher than it was in 1976-77. The number increased I from year to year up to 1883 when it amounted to 9,635 : since that year there has been a steady reduction. As in the case of the Punjab, the increase in the earlier years had for its object the diminution of illicit practices. In reviewing the Excise Report for 1876-77, the Lieutenant-Governor expressed the opinion that the number of shops in distillery tracts was quite in sufficient, and after noticing the variations in different districts said: "it is impossible to conceive that the taste of the people is as capricious as the allocation of shops by Collectore." In the Excise Commissioner's Report for 1852-88 it was said: "Shope should be so distributed that a man determined to drink may do so without an amount of inconvenience which might stimulate smuggling or illicit distillation, but at the same time, it is not desirable that a Government Department should act the pushing publican and establish shops in every promiment locality." In the same report it was observed that " in most districts we have to combat suspected maipractices eather than a tendency towards an excessive consumption of ligit liquor." Thus it will be seen that the increase in the number of shops was made designedly with the object of diminishing the illicit practices which always are more difficult to check under the Central Distillery system than under any other. But the reduction in the rate of duty diminished the temptation to these evils, and this, added to the greater attention paid to the Excise administration by district officers since 1877, has rendered it possible to reduce the number of shops considerably since 1883.

57. The rates of duty have varied as under in the North-Western Provinces and Oudh;
58. In Oudh the rates fixed in 1861 were—

a.
1 0 for strengths higher than 25° U. P.
0 18 | lower 1, 25° ".

In 1862 the latter rates were raised to H2 and R1-8. But in 1863 they were redeced to those of 1861.

In 1876 the Chief Commissioner of Oudh, in reply to a suggestion from the Government of India, expressed his readiness to raise the rate of duty to that in force in the North-Western Provinces, R1-8 a gallon. But as the North-Western Provinces Government in the meantime proposed to reduce the rate for the reasons stated below, and it was desirable to have the same rate in both Provinces, the Oudh rate was altered in 1877 to a uniform rate of one rupes a gallon irrespective of strongth at the same time as that rate was adopted in the North-Western Provinces.

59. In the North-Western Provinces the rates fixed in May 1873 were-

R c.

1 0 for strengths higher than 25° U. P.

0 8 sower p. 25° n

In October of the same year these rates were raised to R2 and R1.

In 1864 it was thought necessary to fix different rates for spirit distilled from mohwa and from molasses. For the former spirit B1 and 8 annas were fixed; and for the latter B1-8 and 12 annas. In 1866 these rates were raised to B1-8 and 12 annas and B2 and B1 respectively. In 1867 the malpractices connected with the testing of strength led to the abolition of the differential rates for different strengths, and the duty was fixed at a uniform rate of annas for mohwa spirit and one rupes for molasses spirit. In 1869 the rate for both kinds of spirits was raised to B1-4 and in 1870 to B1-8. In 1876, the Local Government, in reply to a suggestion from the Government of India that the duty might be raised, said:—

There is a strong consensus of opinion that the present rate, so far from being capable of increase, is too high and should be lowered. The still-head duty plus license fees falls on andiluted fiquor at about \$2.8\$ the gallon; and from the review of the Excise Report for 1873-74 His Excellency in Council will learn that in many districts the competition of illicitly manufactured liquor is on the increase. The loss of revenue is doubtless not wholly due to illicit distillation encouraged by a high rate of duty, for it is probable that much fiquor leaves the distillery which pays no duty, and that the revenues are thereby defrauded; but in the eastern part of these Provinces especially, the facilities for the manufacture of native liquor from the monwa tree are so great that the imposition of any but a light daty must certainly lead to illicit distillation. The best way of raising the excise revenue is still under His Honour's consideration. But in a country in which the means of distillation, whether from molasses or from monwa, are to hand, and in many parts of which the competition from foreign territory is lively, it is impossible to raise the duty.

In accordance with these views the Government of the North-Western Provinces in \$377 proposed that the rate should be reduced to \$1 per gallon on the grounds that "this would greatly diminish the inducement to illicit manufacture:" and that "complaints have been numerous that the present rate of duty in the North-Western Provinces is so high as to have put duty-paid spirits beyond the means of the majority of the drinking classes, and given rise to much sinuggling and illicit manufacture."

The Government of Indis reluctantly anctioned this measure. It has undoubtedly had a considerable effect in reducing illicit practices in the North-Western Provinces, complaints of which are now less common than formerly. The Government of India has, however, for some time been disposed to think that the rate is too low, and that illicit distillation and emuggling might now, with the more efficient administration which has been secured in consequence of the greater attention paid to excise matters in recent years, be kept in check even if the rate were raised. This view was not for some time pressed on the Local Government because of the known danger in interfering with the discretion of Local Governments in these matters. The Lieutenant-Governor has however recently been requested to consider whether the rate of duty should not now be raised.

Rainfall, Weather, and State and Prospects of the Orops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 1st March 1890.

	36	District a	nd date of	Rainfall at Sudder Station in inches.	Character of the worther and state and prospects "
B	EN	BAL. Western	Districts.		
	1	1 Burdwen	March 1, '90	Nit	Weather—seesonable. Sugarcane being cut. Outturn about 18 annae. Pro- poets of other rubbi crups continue favourable. Prices of common rice:
,	1				Burdwan Culma
į	I	2 Bankson	., 1, '90	Nil .	Weather—days hot, mornings and evenings cool. Wheat, barley, gram, and mustard being respect. Pressing of sugarcane continues. Common rise is occurs per rupes at Sudder and 13h sevre at Hisbenpore.
Drawn.		8 Birbhum	., 1, '90	NII	Weather-warm. Prospects of crops very fair. Price of common rice range from 17 to 20 seers per rupes.
BURDWAS DIVE		Midnepur	1. 90	NH	Weather—fine but cetting not. General prospects good. Indige doing well bome rule wanted in the Ghatal anidivision. Prices alaxus stationary Prices of commun rice:—
-	н	1000	2 1-		Budder lb)
	П	1915-39			Tambuk
46	н	C 100			Ghatal 19
		Hooghly	1, '90	Nil	Weather—seasonable. All coops doing well. Prices of common rice:
- 3	ш	1			coulder 12)
					Serampore 16 per rupee,
П					Jehan-bad 171)
	h	Howrah	1, '90'	Nil	Weather-foggy morning, days warm. State and prospects of crops good.
ď		Central In	etriale.		
٥	9 0	24-Pergha.	March 1, '90	NU	Weather seasonable. A good winter crop has been harvested, and institute pressure well. See paddy doing well. Pressing of sugarosas proceeding. Common rice selling at term 16 to 18 seers per rupes.
DIAM.	7	Muddes	1, '9n		Weather—seasonable. Prospects of crops on the ground favourable. Lineed, mater, and gram being reaped and threshod; quiturn may be 12 annes. Cultivation of land for one going on.
NON	8	Khaolne	1. '90	Nil	Weather-mornings foggy and days warm. Condition of here paddy and rubbi erops good.
PRESIDE	9	Jasoore	1, '90	Nil 1	Weather—hot in the day, but cold in the night. Rain wanted for cultivation of rice lands. Harvesting of cold weather crops going on. Price of speatstonary.
1	10	Moornbedal-ad	., 1, '90	Ri. V	Veather-bright and cool. Harvesting of robbi crops continues. Lands being prepared for bhadoi.
1	11	Diangepar	1, '90	3653	Vesther—days hot and nights cool. Prospects favourable. Average outtent d mustard 12 sunns. Pressing of supercase continues.
	13	Rajahahyo	., 1, '90	MII	Venther—hot in day, cool at night. Harvesting of material almost ever. Propocts of other rubbs crope generally good, but want of rain much felt. Lands being prepared for our rice and jute at Nattore. Ganja manufacture continues. Here sells at 174 evers per rupes.
, in	1.8	Hangper	1, '90	1611 A	Feather—cool with high northerly winds. Rain much wanted for our sowings. Rubbs crops doing well. Bugarcane and tobacco both must promising.
5	14	Hogza	1, '90		Fasther—reasonable. Land is being ploughed for one paddy, jute, &c. State of the standing crops (peas, linseed, &c.) good. Outturn of sugarcane 16 annas. About one-cighth of the land appears to have been transplanted with sugarcana. Common rice celling at 22 seems per rupes.
100000000000000000000000000000000000000	16	Pulma	., 1, '90		Tenther-cloudy and fair. Outfarn of mustard and tobacco expected to be 12 annual. Other winter crops doing well. Hais wanted for choras and
	16	Darjeeling	,, 1, '90	Will W	continue fair. Crope doing well and prospects generally good. Price of common rive:
1	17	Julpiporae	1, 190	Nij W	Darjeeling 18 Kurmeng 18 per rupee 19 cether—hot days with cold nights. General condition of tobacco crop good.
1	17	Julpigorae	. 1, '90	Wij W	relligari centher—but days with cold nights. General condition of tobacco crop Prices stationary.

	No.	District and		of of		Rainfall at rudder Station in inches.	
HIG	NO	1.—concluded.					
0.00		. Eastern D	interio	da.			
	16	14	Marci		*wn	NII	Minute of the second of the se
	14		200, 100, 11.7		gres	2-11	Weather—days getting hot, but nights are cool and fine. Winter crops doing well. Mustard, pulses, and sugarcane being cut. Ploughing for early rice and jute is well advanced. Fodder is available. No special change in the prices of foul-grains. Common rice 15 seers per rupes.
DALCA DIVE.	19	Furre-dpur	40	1,	90	NII	Weather—couler as nights than in the previous week. State and prospects of erops continue fair. Sugarcane being planted. Cheap rice selling at 16 seems per rupes.
T) A	ı						
	30	Backergunge	6.7	1.	'90	Nil	Weather - seasonable. Prospects of rubbs crops fair. Common rice selling at 184 score per rupec.
	21	Mymonsingh	4.9	1,	190	Nil	Weather—sessouable. Prospects of crops good, Coarse rice sells at 14 secre-per rupes.
	32	Chittagong	**	1,	90	Nil	Weather—coasonable, getting warmer. Rnsn wanted for crops.
Culitabisted Birm	23	Noskholly	8 4	1.	'90	Nil	Weather-wariable, but in day, but cool in night. Rubbi crops are being har- vested. Cultivation of soil for saw continues. Rain wanted. Price of rice stationary.
HITAB	24	l'ipporuh	**	1.	'9 U	Nil	Weather—unusually warm. Strong winds; cloudy. Gathering of mustard completed. Boro paddy and chillies thriving, but rain wanted. Prospects good
	25	Chittagony Hill Track.	Peb.	28,	'90	Nii	ir land, on chare fair. Wenther—cold in the morning, days becoming hot. Gathering of mustard now over; outturn estimated at about 6 annus. Tobacco and chillies progressing, but r in much wanted. Jum outling commenced. Sugarcane being planted.
1651	HAR	Hill Tipper-b M	lsech	1.	'90	Nil	Inferior and lowest class rice selling at 16 wers per rupee. Weather—setting warm. Sugarcane still being out. Boro paddy doing well in the low lands. Jums are still being cleared.
	26	P-tna		1.	904	0.03	Weath r-nights cool, days warm. Harvesting of rabbi crops being pushed on. Wheat and barley not yet commenced to be reased. Tollection of opions going on. Prospects continue favourable. Process of food-grains almost
	27	figa	9.7	1	54	Nil	stationary. Weath-r-sessonable. Opium being extracted. Mustard, linecod, grain, and
	#8	dhulpeland	64	1.	\$81.	0.01	Weather—warm and cloudy. Harvesting of pulses almost finished with average ontions. Wheat promising. Opium being extracted Prospects excellent
FAIMA DIVE	259	Durbhungs	**	1, '	\$40 v _j	VII	There was a stree on the night of the 25th, with very alight rain, which doma of mange blossoms, but did no appreciable barm to the poppy-grop. Weather—days warm, but nights cool; a storm of wind followed by a few drops of rain on the night of the 25th. Wheat, barley, and lineed are ripening. Extraction of opium countered. Independent sown. Lands in chursheing ploughed for paddy. Common rice selling at 197 seers per rupes at Sudder.
		Mosufferpur		1. 1	100	811	Wenther-warm; a gale with alight rain on 25th all over district. Prospects
	31	Jarun	9.0	1 1	9+ } 		favourable. Poppy in full flower, and collection of drug commenced. Weather—clear occasionally cloudy. Racci, including onts, gram, and limeted, doing well, and gives prospect of a 16-auta crop. Poppy prospects also continue favourable.
	89	("To er sto grade no se	uj 4	1. "	(ani		Westher—getting hot, occasionally cloudy. Rubbi attaining maturity with the prospect of a 16-anna crop. Linseed ripe-ing. Planting of sugarcane progressing. Opinin in juice, and named trees in flowers. Indigo sowings continuite ed.
ı	33	Monghyr Bogusorai	64	1 1	PILI	0.8	Westner—seasonable. Days warm, but nights cool. Standing crops doing well. Late wheat and peas in the Beguserar subdivision have sughtly suffered from rain, but indigo has bonefited. Prices stationary.
į	34	Hhagalpur	8.1	1. 3	1941	MII	Weather—seasonable. Linseed being harr sted with about 8 areas outturn. Low tands being ploughest.
state of the state	15	Purnent	17	1. 1	301		Weather—days rather warm with atrong west wind. Tobacco being gathers?: All rabbs crops doing well. Wheat would be the better for a shower. Ploughing going on.
Last was d	36	Maldah	04	1. 16	PED:	0.994	Weather—hue and warm with weaterly wind. A slight shower on one day in the Sudder. Rubbi creps ripening and doine fairly. Transplanting of hose paddy continues. Common rice selling at an average of 18 seem per rupec,
	37	S othat Pergl a	es 1	L, 19	00	Nii V	Venther - hot with stron; wind in the north; cool and cloudy in the south-west. Mang crop promises well. Sugarcane being plan ed. Rubb crop generally promises well, except in Pakour, where mustard, linearly, and wheat expected o yield 8 annas only.
	- 0						and the same of th

	No.		and dute of turn.	Rainfall at Sudder Station in inches	Character of the weather and state and prospects
138	 N8SA				
	38	Cuttack	March 1, "I	Nil	Weather-sky mistry in the morning. Harvesting of mung completed. Pros. peets continue good
URISEL DIVE.	39	Pooree	Feh. 28, 19	o Nü	Weather consonable. Threshing of the winter crop (late sarad) still c nti- nues. Datas and many doing well. Mango crop almost lost by fog. Price of rice stationary.
	40	Balunte	March 1, '9	0 0.20	Weather—seasonable. Few crops on the ground. Such as there are doing fairly well. Rain would be welcome.
C H	ATO	NAGPORK.			
	Souti	-West Fronts	or Agency.		·
	41	Huvaribaga	March 1, '9	Nil	Weather-seasonable. Crops in good condition gene ally, but sometrain is ne did.
MOTA NAGRORE DIVE.	42	Lohardugga	., 1, 190	Nil	Weather—days bot, mornings cool Prospects of rubbi crops favourable. In Palamow the rubbs crops that were spare i from the late hoar-frost are now ready. Making crop promises well. Uncommon abundance of mango blossom all over the district.
MOTA N	43	Singhboom	1. '90	Nil	Weather—consemable. Prospects of crops remain good. Prices stationary,
=				f	án.
	44	Manbhoom	., 1, 90	NII	Weather-rapidly getting hotter, and westerly winds beginning. Spring crops doing well. Sugarcane b ing planted.

Published for general information.

CALCUTTA; REVENUE DEPT., The 1th March 1890. P. NOLAR, Secy. to the Goot. of Bengal,

Results of the Meteorological Observations taken at the Alipore Observatory from 23rd February to 1st March 1890.

		-	0 2	100		Tharm	RATURS	•		Н такон	MINT.		WIND.			
Month.	Date.	Maximum is and	Number of bours bright runshine.	Mean pressure bares at 32º Fahr.	Moan.	Maximum	Range.	Minkoum.	Mean wet bulb.	Vapour tension.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.	Rain.	WEATHER.
890.		0		Inches.	0	0	0	0	0	Inches	0	%			Innhas.	
, tr	23rd	142 8	9.1	29-915	75-6	87 7	24:4	63 3	68-5	0.602	64-2	71	WSW and variable	68	Nil	Clear,
	24th	141 2	₽·6	921	76 6	87-9	21-8	66 1	69- 5	627	65 4	71	WSW and SW by W	81	, :	Morning cloudy day and nigh
	25th	141.3	8-4	914	76 1	87 4	22:4	65-0	66-8	-608	64 5	70	SW by W and NNW	88	.,	Partially cloudy
	26th	142 5	9-3	-861	76 0	90 8	28-0	62.8	69 0	-616	64-9	69	WSW, SW and SSW	149	13	Chiefly clear.
	27th	140 0	8.8	885	78-1	87 \$	20-6	66 9	70 8	*644	66 2	68	SSW and variable	83	0.7	Partially cloudy
	28th	140 8	8-2	-917	76 4	86 7	21 1	8-48	64 9	468	57.1	66	WNW and variable	67	1 (0)	Chiefly clear
oh	let	142 2	7.3	903	75 9	86-8	24-0	62 8	70-2	667	67 2	76	S by E, SSW and variable.	67	*	Chiefly alouds

The many and the same days					Inches.	
The mean pressure of the seven days. The average pressure of the correspond		or 94 ves	8 -G 's O	Man.	29·902 29·900	
and a straige browning or the controller	and benon	01 24 Joan	18, 0 -(1. 8 0)	E100	Hours	
The total number of house of bright of	hina					
The total number of hours of bright s		* * *		= + +	60.2	
The maximum possible number of hou	rs of sunshi	10	4 0 0	***	81.1	-
					0	-
The mean temperature of the seven de			4.60		76.4	
The average temperature of the corres	ponding peri	od for 24	years, S 0.	n Office	76.5	
The extreme variation of temperature				o 0 0	23.0	
The maximum temperature	4.0.0	* P &			908	
•					Milon,	
The highest velocity of the wind in or	ne hour		***		17	
					lbs.	
The highest pressure of wind on one s	quare foot	5 W P		Not me	asurable.	
0 4	•				%	
The mean relative humidity					69	
The average relative humidity of the	oorrespondin	r period fe		SG.'s		
Office	•••	,	, , ,		64	
					Inches.	
The total fall of rain from 23rd Febru	ary to let M	arch 1890			Nil	
The average fall of the corresponding					0.20	
			d. a Olitoa		0.77	
The total fall from lat January to lat			Q 1- Off-	• • •		
The average fall of the corresponding	period for 24	years, 5	G. J UMOO		1.49	

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph, and from observations made at 6h, 10h, 16h, and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the thermometers. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No 86, formerly

at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o overcast, a dow, = fog, t thunder, < lightning.

#. B -In the weakly report from 9th to 15th February 1890, read 59 9 for 55 9 as the mean wet bulb of the 9th February 1890.

Q. LITTLE,

For Meteorological Reporter to the Gost, of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA; Calcutta, the 3rd March 1890.

Meteorological Report of the Province of Bengi

2									81	PATIC	N OBU	BBV/	TION	6.			
		,	Ata	PREST	RB.	WII	ro.					THE	PREAT	VRB.			
	Distatos	Representative station.	Nean in constrict height, 8 A.M.	Wents Testinoed to	Variation from	'savaling direc-	Mean wind ve-	·ligher during			Lowest during			Mone magnifully	Mean minimum lemperature of week.	Mean daily tem- perature of west.	Saration from Sermal mean of week.
	Poores	Phoree	201954 201946	20 · 46		aw NNW	228 319	80.4 \$.06	23rd 25, 24		e entra	янь	Pab.	948 °G 84 G	71:0	79 3	7
		Paine Point	29 961	\$0 v7:5	-164	N.M.	900	8978	23rd	9.0	63.7	#Red	#Nra	9.174	67 b	77 1 82.7	4 1 to
	Onttack	Cuttnek	29'901	29 DILT	-1014	Culta	900	9R'6 9S'4	27th	0.0	(D.q	find, fird	Fuh.	91'5	63 1	74.3	+21
Li	Helinotro M. Anno	Rainnere	\$9191	29 979	— 11811	16	12817			0.4			**	85 s	7113		+ 216
1	South Se-Pergunnahe	Sauger Interes	29 963	29 940	01H	Westerly	247	88.5	20th	p +	@()*P	Shed	9.1			76 4	+10
li	Midnapore	Nidn-por-	29 839	29°994	1029	24	100.4	36.3	171h	• •	62 2	#3rd	,,	93 7	164-13	79 2	+ 41
	Houghly	Cateura	\$p-550	191979	-1031	Calin & Westerly.	RE	91 0	27th	**	618	unh		88914	6417	74%	+21
	Burdwan	Burdwas	96 85A	29 94E	- 086	Online .	36'8	96'0	27th	• 4	Su'd	dith	7-0	MT P	dal*i	77"1	+24
11	Hankoore	Hankoosa	gs:641	29/354	032	W	60.7	9-813	271h	2.0	40.h	raed,	Zith . Fen	291.4	Q22 7	77:1	+ 2 x
-	Beerbhoom	Lancogunae	291644	29 Min	- 8160	WNW	5575	94'5	278h		601	zard	4.4	MIT	62.2	74'8	+27
11	West Burdwan	Berhampore	291889	Ap. fign	- 061	Westerly	75'6	92.3	271h		57 7	260	+)	11 105	614	:60	+17
Li.	Macrahedahad	Krishnaghur	291924	:9'99'2	rier-	4 RA	R28. 4.	917	271 is	0.0	51.5	.ant		90 ti	5719	741	+11
H	Nudden		291934	2× 3(E)	- UZB	Nouth-	4814	9316	37th	p-t	66'5	22, 2	20 32	823 rt	45.5	77'8	+31
1	&boolen	Jensott				westerly				*	59 6		le da	87.7	63.3	75 5	
	Chittagona ··	Chittagone	29-16Hi	Shuber	- "UBI"	Variable	E300,74	PR'S	25th rations	e col Pro		2062	4.	0, ,	1342 17	100	+ 1
13	Chittegong Hill Tracts	Doming(r)	strace	29 TME	- 'olu	Culta	67 6	169,2	dild	Feb.	@u*1	260 ls	'	57:2	rdr5*.5	76'a	. 4
	Backersunge	Barrisa	29'956	36'000	-	South-	9172	88'U	.6811		61"8	SSLh	1	w6'4 a	45°8	75'9	+ 5
11	Noakholly "	Noakholly	29 923	201964	~ 1085	wemorts 8W	6817	B6 0	#3ml		61'8	231h,	"file by	85 %	62'a	18.7	+2
	Parreedpore "	1/acca	10-1-01	29 1181	1043	Wekse	70 0	มอาต	27th	91	6178	sittb	Feb.	68.2	425 G	76 0	+ 2"
1.	Commitab	Committee	รมาม _ั งก	29187	— 'wis	8	61'8	88 1	\$54h,	Ruch	8916	soth		165 7	6+3	7515	+ d
0	Mymensinab	Mymenetagi	29"966	29-1460	- '042	Basterly	70 7	86"A	27th	Peb.	57 0	Esth		86 U	the A	73 3	+ 2
11	Bosta	Burra	39166	27'931	020	6	W711	91'.	gren	0	5511	2841	91	wk/5	36 B	18 0	+51
1	Puhna	mernjg utige	25/1994	25/1/42	- 885	Wsw	46.0	purs	27th		661	251h	41.	88'3	38 5	7414	+3
1	Rajahab ye	Вашрети Вили	20 RH1	29,161	- 815	South- Westerly	80 0	89%	27th	**	pG 2	24th	**	87 O	dU 6	748	+ (1)
	Ngjdob	Maidat	\$9187 G	9:961	-	W	190/15	92.7	87th		83.7	Med.	Feb.	BUTU	361a	7216	***
	Dinagepore	Dimagepore	일부 두일일	297900-	- 1:60	SW.	107'6	100	37th	0 4	61 2	stab	**	67 =	56 ti	71.9	1+35
11	Bungpore	ltongpor-	19 825	23/1/61	-1947	8 .	617	150 to	with	11	50 7	SHEIR	44	95 #	20512	.1 =	+ 51
1	Julpanoree	Julpigorm	s 1640	22942	140.	SWAL	115'0	8216	2720	a rath	4917	sith		6 § a	65.1	GM12	+31
	Daryeeling hall Tracts	Darperios	12 985	-	-	B = W	20.2	501.	278h	Fett.	37.8	25th		34 11	30"0	46.6	+ 3
fi	Purneah	Purnes!	t- Bin	25/ TPAN	- 01	Nouth	1201	87.7	27th	44	50'U	Sith		83 a	86.9	70 1	+11
	North Bhaguipers					westerly						-	**			1	}
	Mosufterpore		zu :76	gy 951	04:	W-W	Bred 103	87 H	West in		unded.		,	86.8		,	
	Chumperon	Durbbungs	2×171	Z9-1/6.1	- 03z	Variable	523 (128	99.2	6		80.9	38th	1	84'8	8166	₩ '3	9.61
	MATER	Chupre								0.0		-	11				, ,
		Dehten	29 45419	1011-051	+ '0 3	16 36"	283 1	M1.2	Find	4.5	8915	#3rd	44	90.0	EÚSET M	76'0	+6
	Shahabad	huner	20757	29 1/2 29 1/42	- 618 - 619	Bouth- westerly	16714	M0.2 84.8	26th	01	8317	3 rd 35rd	**	96.1	60'J	72 H	+3
	Gya	(syn 4	291867	20'561	- '081	15	101101	91114	2761	4)	60"]	zeth		87 H	4(310)0		+3
	Patria .	Bonkspore	20 771	ZN 862	- 040	W	102 4	89.9	2018.35	11	85*2	23rd		ud d	59°n	7311	+31
	South Shagulpore Mongleyr	Singaipore	ay:776	201944	- 6.4	Calm & Westerly	1 144 I	81 2	1871h	**	86'8	10th		081b	8816	73/8	+31
1	Bonthal Pergunnal s	Imomas	291487	29 975	_	Onlin a	19772	145.0	gith		60 6	33rd		6910			
	Hazaribanh	hasaribagh	27 939	80'1-01	011	N W Nouth	\$48'5	115 9	zith	**	57'4	sora soth	**	8617	98.0	7610	+1
4	Lohardugga		\$7·816	29 V-5	- '604	Calm	1						0.9			7:1	
	Manhhuom	Kanchee				Omite	164 3	#5.K	25th		8814	Materia	5.6	86'7	8917	79'8	+2
	Sinabhoon	Спунция	E1412146	20/1003	-	Bouth-	4015	H8'7	Slad		6910	H3rd,	2 stb	9116	6113	76'4	

Explanation.—Summary.—The normal means of air pressure and commercials are the arithments of means of the randing curing the came period for the means of the randing curing the came period for the means of the randing curing the came period for the means of the randing curing the came period for the means of the randing curing the came period for the means of the randing curing the came period for the randing curing the came of the randing curing curing curing curing the came of the randing curing cur

the week ending Friday, the 28th of February 1890.

		æ.,					DINTE	ICT OBS	BRVATIO	NS.					
1	in in	60 60	1					RAIN	PALE.						
	nd amount or week.	week	O) W	rank.	Bino	e lat of mor	ıth.	Sino	e 18th May	1889.	of rain	number r daya.	Representative	District,	
	America cloud at 5 A.M. for	Rainfall of week observing alation.	Houn for district.	· Normal mess.	Mean for district.	Normal meant.	Variation.	desn for	Normal means.	Variation.		Arrest ne			
	0°6 8°3 4°0	No Nil Nil	NII	0.14	Nit	0183	-0:83	74194	86:46	+13'48	0.0	0.3	Poorce}	Pooree	
	116	NH	0:01	0.08	0.01	0.81	-0.80	00.40	59'70	+13'61	0.5	0.3	Outtack .	Outtack	
	0	0.19	8106	0:84	4/196	1196	- 0.84	50.04	54'37	- 4'58	018	0.4	Balanore	Balasere	
	3*0	0.11	0107	0125	0.02	1'38	-1/31	58 65	63:75	-5-11	0.7	014	Saustor Intend	Spoth-West Miduspor	
		Will	Nil	0'19	Nil	1.00	-1'00	40:39	84157	018	0.0	0.3	Slidnapore	South 34-Perkumaha	
þ	014	201.61	2411	4 19	84.00					i				24 Personnaha	
ě	2:3	NH	Nil	0-15	Nit	1 25	-1.87	84.10	82-91	+1:19	0.0	0.3	Caloutin	Hamilton	
9	11	Nil	Nil	0114	811	1:43	-1 03	43169	47174	—3°85	0.0	8*4	Burdwan	Burdwan	
5	11	Nil	NII	0110	Nil	073	-0.73	55'93	fu.59	+2102	0.0	0.3	Hamkooga	Saukoora	
	1'4	Nil	Nil	0'07	Nil	0.88	-0.68	82146	52.60	-0.14	010	10 B	Rancogunge	Basebbasen	
ě			1			u·70	-0.79	51:17	51'34	-0.12	010	014	Berhampore	Yout Burdwan	
į.	11	Nit	Nil	9108	Nii	1'04	~1'04	51'61	60 18	+1/43	0.0	013	Marshara barra	Nuddea	
	1.4	Nil	Nil	0.12	Stil								1.	Jesse ca	
L.	:'1	NII	Nil	0.10	3(1)	1-11	-1:11	84.75	84 33	4 0143	0.0	0.3	Jessore {	Khoolna	
4	8.8	Nil	Nil	0.13	Nil	0'73	-0 73	100 35	114'61	-14.16	0.0	0.3	Chittagong .	Öhftingong	
				0 15		0.80			\$2.4h			0.4	Demagiri	Chiffingons Hill Tract	
ú	3.4	Nil	Nii	0.12	Nit	1.02	-1.08	78:41	78 06	+ 0733	0.0	016	Barrina)	Backergunge	
	0	Nil	0.07	0.10	0'07	1'05	-0.88	90'80	108 16	-17'87	0.8	0.4	Nonkholly	Noakholly	
7)	914	Nil	Nal	0.22	Nil	1 30	-1.50	61.53	56'92	4.5°S0	0.0	0'4	Furroedpoie	Furreedpore	
·	115	NII	Nil	C.FR	Nil	1'80	-1:50	76'19	60180	+15'39	0.0	0.4	Unces	Dacea	
	1.0	2041	Mil	0114	Nil	1 92	- 1'02 - 0'93	90.03	70°23	-13'71	0.0	0.4	Committee	Tipporah	
•	010	2011	Nit	0.00	Nil	6193	-0 78	58178	88:01	+20'53	0.0	0.3	Mymenmagh	My wensingh	
ì	0	NII	Mil	0 01	Nil	0*78	1'03	65 162	84.40	+0:97	0.0	0.1	Bogas	Bogra	
ľ	0.1	Nil	Nil	0.02	N.:	1'08	-670	88:37	84135	0'25	0.0	0 2	Soraiguage Kampore Seaujest	Pubna	
ľ	0.9	NII	Nil	0.61	Sil	0.20	-0 38	39'79	24.81	-15'02	0.3	0.1	Makish	1 2	
ľ	0	0.00	0.03	0101	0.83	0:48	0145	57'49	87-88	-0 38	0.0	0.1	Dungspore .	Maldah	
	1/3	2011	Nii	0.01	Nal	0.43	-0163	85 87	74:26	+11'61	0,0	0.1	Rungpore	Diungepore	
l	3	2011	MII	t)*09	2011					i				Rungpore	
ľ	0		NII	0.03	Wil	6-30	-0.95	117-73	111:64	+ 6109	0.0	0.1	Julphone "	Cooch Bohar	
1	410	MI	Nil	0.12	2611	0.63	-0107	183:46	188104	+11'68	0.0	0.2	Darjeeling	Darjeeling Hill Tract	
1	1.1	2013	1112	0102	Nil	0 60	-0.20	75'00	81,00	+15'82	0.0	0'1	Purneen {	Purneah North Bhagulpure	
			0.03	0.03	0.03	0.30	n187	48'85	48193	+ 6192	6'3	0.1	Monuferpus	Mozuffernore	
ı	1 19	Ritt	NH	Nil	2011	0.40	-0-40	62'31	46'12	+6.80	0.0	0.0	Durbhunga	Durbbunga	
	2'3	3613	NO	0.01	Nil	0.80	-0.35	63-96	67:17	+10.70	0.0	0.1	Motthari	Chumparun	
	p'		3641	0106	Nil	0166	- 0145	40:13	45'43	5:30	00	0.1	Ohupra .	Sarun	
	\$1 21 21	101 0'01 0'04	0*01	0183	0.03	0.40	-0.38	40.09	60168	-0.89	0-2	0 1	Denres Buist Arrah	Skahabad	
	1'0	Nii	0.08	orua	0100	0148	-0:40	37'00	42106	-4193	0.2	01	Оуп.	Gya ,	
	116	0163	0.01	Nil	0.01	0:41	-0140	43.20	41.73	+1'77	นาธ	0.0	Bankipote	Pains	
	118	0108	u104	0*85	0.04	0.98	-0.45	45:47	43'69	-17kf	018	0.1	Busksthote {	South Bhagulpare Monshyr	
	i ura						-0'47	84138	61.38	+3'69	0:0	0.1	Hooman	Southal Personnahe	
	11	Nil	2011	0.09	Nil	0189	-0.90	48105	91.09	-8.03	0.0	0.8	Hazaribagh .	Hazaribanh	
	116			0.00	Nil	0.28	-0.28	44154	41°85	-8:01	0.0	0.3) · (Loharduggs	
	1.11	2011	{ Nail Biss	0.00	Nii	0.84	-0.04	28.50	47.00	—9 15⊎	0.0	810	} Rancai {	Mant hoom	
	07	Ru	NII	0.04	Nil	0184	- 0'H4	48.70	69'48	-3.00	9*0	0.2	Chyebases	Sarghboom	

The variations are negative when the mean for the week is less than the corresponding normal morn, and positive when greater,

that amount represents the part of the sky covered, the whole sky being denoted by to. Under the head theorem observations of rainful the normal means.

The means of the district are the numerical average of the rainful return received in the district, for from total rainful of the subdivisional.

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 28th of February 189(

					R.	AIMPALL					TAL		Average		1.
Meteorological division,	District.	Station.	Vehrung, 2006	Sunday, 23rd February.	Monday, Sub-	Toorday, 25th February.	Wednesday, 36th February.	Petrunday, Stra	February.	Number of	seek.	Total rame fall ance late? month.	total rain- fall from latof mouth.	Total rain- fall stone lath May 1889.	
Ontent	Poorse	Pooree Khurdah		v () +du	ļ				. ,	No.	Nil	NII	0190 0 68	60:71 70:87	
100		Banpur Palse Point Gop Piph						*****	14000	Nil	Nil Nil Nil	Nil Nil Sil	0.81	43 50 77'00	
*	Cuttant	Jagataugpore Bankı	,				0 .7		0.08	No.	211	Nil	0.41	74°60 87°32	
		Cutinek Kendrapara	4444					*******		No.	Nd Nd Nd	Nil Nil Nil	0 73 0 73 1 18	75*18 72 14 87 44	-
•	n 01	Dharmania Salspore		******	** ** ** ** **		*****		******	Sil	Nil Nil	511	-	80'23 72'47	
	Balanore	Chandina				1	0130		10000	Sil	Nil 0.80	Nil	1:01	85°04 67°16	
		Виданстр			***				0.13	Nil	Nil Nil 0'15	Na No 0.18	0°84 1 36 1'62	46 05 46 01 20074	
		Jellusere Harrpodah							0.10	Nil	211	Nil	0'80	84 79 88 27	
Saucal.	Midnapore	Contai Sauger Island Tumberk						***	011	NO.	N11	Nil	1.13	867 %G 4381600	Н
-		Mainspere			*	1 4		***		No.	Nil Nil Nil	NII NII	68.0	43 30 80 84	
	AL 1	Kukrahaty	*****		***					211	Nil	311		40 29	
	24-Pergunnalis	brest t	**		-1					Nil	Nil Nil	20	1.48	63179 67145	Н
		Canning Tous. Alipore Jail Barrack pare			9-1			11 33	***	Nit Nit	No.	No.	1'47 1'27 1 13	8: H7 8: :3 65 49	Н
		Bum-Dum Haraset Husverhat	A.D					100.1		Nil Nil Nil	Nil Sil	No.	1.733	85 7. 65 61	П
	Howab	Howenh)	1		***	***	***	N:1 N:1	Nd Nd	No.	1.41	6p:44 83'04	Н
		Mohesteka (Guiobartak,	1	*** **					******)			П
	Hoeghly	Hengles			***	1	-	******	*******	Nil Nil Nil	No.	No.	1°24 1°24 1°27	87.63 41 U1	Н
	Burdwan	Jeimmeind .		1 221			****	1 14770		Nil	NII NII	N11	1104 0166	41.33	Н
		Surdwan Lutwa Kamegunge		*****	****	. ces	*	1 4 3 1 0 d		Nil Nil Nil	201	NII NII NI	1'10 1 19	47°45 43°11 53°90	
1		Mantur	1		+(4)4)+ -			i		No.	Nii Nii	Nil Nil	n 67	60'86	
	Hankoors	Hanknorn Hastauppere Manage	***							No	Not Not	N (1 N (1	0*77	87-40	П
		Khatra .	1			1400	***			201	NII NII NII	N11 N11 N11	0 64	63°91 45°14 48°40	Н
		Anda Ganyajalghati				1				NI	Nil	Nil		60°44 59°17	Ш
		Ratifiere Tonomukht							-1***	Nil	Nil	NII	1	\$5:35 84'44	Ш
	Seerbhoom	Bh. Soory Hetampore .					** *		4.	NII NII NII	No.	Nil Nil Nil	0°51 0 D7 0°58	\$9.06 47.07	Ш
		Bampure Hant hulpare Hurarei) = ***********************************	*****	7 AF-	******		** ** ***		Nil Nil	Nil Nil	Nil	P P	47.78 63.04 83.10	П
	Nusdra	Kanaghat	10.7		***gr		40.0	*****	*****	No.	Nil	Nil	0 93	\$8.10 43.52	Н
		Mehermen .			100000		***		84 414	Nil	No.	2N i L 2N i L	1:11	49-68 83:16	П
	Khoolna	Escentres Satkhira			1			****		Nil	Nil	No.	0.03	99,99	Ш
		Bagurhat .				1000) **			No No No	No.	8 d 8 d 8 d	1.31	65 M	
		Nakepur Rampal		***	1		1	100.0		Sil	Nil	1841	1	2	Н
	Jesecte	Naruil Jeanore Jhemilah		*****					******	No.	NII NII NII	Nil Sid	1.10	85'01 63'90 50'74	П
		Magourah	11. 1			f		-1		Nit	Nil	Sil	1.08	56°00 47'64	п
	Moorshedsbad	Kandi Berhampore		100.1	1			***		NH Nil	NII	N11 N11	0.88	85188 40128	П
·		Laibagh Assucings	197		PARTIES.	***	b.	100.00	4	Nit Nit	No.	NII NII NI	0°72 0°76 0°71	43°18 55'01	П
		Intgon Jeagunge		******	*** *	*****	Protes	*****	1	Nil	NO NO	8.0	0.42	43.20	ı
		Akhricunj Patkabari	1 ***	******	1 +1890	******	** ***	*****	******	Nat	Sil	Sit Sit	7	43106	
LASS SENSAL	Chittagong .	Cos's Bazar Uhittagong		255 M		0.000	14:20:		40	Nil	Nil Nil Nil	26:1 Sil	0:40 0:80	113.20 77.68 113.60	
		Kutubdid			4		***	201704		Nil	Nil	NH NH	2.0	63.00	
	Unitingong Unit Tracts.	Rengamati Ruma		111100	044411	******	711110f		6188	sil	N.11	0:04 >11	1:10	65 CO	
	Bankernungo	Patnakhally		*****		*1.44		100000	14×151	NE NE	Nil Nil	Sol	115	871/4 721/4	
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stement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 28th of February 1890 - could.

					H	TIMBAL	L			To	TAT.		Avorage		Average Familial from 15t. May to date.
ornio rica)	District.	strict. Station,	Pebruary.	Sanday, 22rd February.	Monday, 14th Pebruary.	Tuesday, 23th February.	Wednesday,	Thursday, 27th	Frday, 28th February.	Number of ramy days.	Bunfall of	Total rain- fall since fut of month.	Avorage total rain- tall from tet of mouth.	Total rain- fall since 15th May 1869.	
BEROAL ancid.		Gournaddi	461846	5,81141 41,845	** 17	*****		*** ***	*****	No.	Nii Nii	211	?	61 51 93 12	9
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	Iracon	Goalanda Mun-hirange	***	.15.6.	*****		* *** * } }	101 F		No.	Nil	Nil Nil Nil	1°28 1 35 1 16	\$6'03 77'5: 70'45	71'4 60'5
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		Brahmumherin Kamehendra	*****		* 144		***	P.F. option	***	Su Su Su	NII NII	Nil Nil	1'30	88.09	63 0
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	Hajohukye	Panent hi Reason h	******							Nil	Nit -	No. 1	0.45	66.34	8012
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	Maldah	Maidab Chanchal Gajal	484 1 No.		11 - 11 - 1 11 - 1		erus.		4 P	No.	orog Nat	n og Nil Nil	0:52	80:50 29:301 39:79	#219 8714
	illingepore ,	Siegunj Mohadel-pore	997941		***			***	*****	Nil	Nil	No.	0 64	61 77 63163	87 D
		Churamop Kaigunge Dungepore Rateorrhat	******		1.		**		,	No. 1	7.1 7.1 7.1 7.1	No.	0147 0151 0150 0129	61°62 62°37 68°33 61°29	53 (1 58 3 63 (1 51 5
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		Vilphameri Visporo	11117			, .	1 execu-		*** #	Nil	Nil	Nil	ł I	79'10	•
	Julpigoren	Inipiantes Airport Deor Fairacotta Dehtrans			4 · · · · · · · · · · · · · · · · · · ·	111 1				24	No. 1	NII NII NII NII	0 28	123.43 1 (8.48 125.23 90.04	117 5 2 1
	Couch Buhar	Ithagutpore (Nagrakatia).	00 A/F =			>4-70	104		,,	Nil	Nil	Nil Nil	0761	130.45	90 6
	00000	Good Rehar Mickelgonre. Masabhanga	71-30 888397 78- 01	19.00		10 707	******	**	7 6 744	Nil Nil	No.	Nil Nil Nil	0.22	121:40 121:40 118:03	110 31 1106 3 112 10
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		Kalisep ag Kurseong	** 11	****	10 10		41.44	1 + 1 + 1 + 1		Nil	Nil Nil	Nil	0.73	92·18	26 a 71
RTL BURATE	Purneah	Kusungunge Arrareab Purneah		19714		. 144			***	No.	Nil Nil	Na Na Na	0°44 0°53 0°56	103°67 71675 63°47	70187 64 21 42116
- 1		Gandware Balarampere Matters	988 RAN	14111	* ***	24 g f 12 962 6 6 6	0.08	v () +	***	NA Sa	Nil Nil	811 Nil	? P		
	North Shegul- pore.	Kaisaganj Maddapuso Scopsol	90 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		1		19171	***-	*** **	No.	Nil Nil Nil	NII NII NII	0.20	60°83	50°[1 68°57
	Darbhungs	Protobganj Injpore Durtingogn	1 8433	200 ve	****		0.01	294187	90.00	Not	orot Nil	n'ol Nd	0188 0148	42159 for : 4	131/61 46 29
		Hadbubani Habera	00 10 10 10 10 10 10 10 10 10 10 10 10 1	44000 638 bi	244249 - 41	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	004 004 	400 007 400 007 400 007	14111 141 MP 1 401 151	No.	Nil Nil Nil	NII NII NII	0,40	69738 687393 687394	45 a7
	Mosuflerpore	Bitamachi Mosufic rpore	999-1- 00x50-	. > a v 4.63 > b -	33. 14	*****	0.03	#90 . 990 xy:		No.	Nil Nil 0 05	Nil Nil 0'08	0.41 0.41	85'63 65 67 42 63	43145 4319 43151
		Para Rahus Rahus Papri	9 7 .s. 00***** ******* *******	9 900 900	ASS 11	2 50 104 (10 104 100 101	303.02	11 ++4 11 ++4 11 ++4 ++++4	180 	No.	No.	Nil Nil Nil	?	62.16 91.03	9

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 28th of February 1890 -com

		;			B	AIRPAL	ь.			Tos	AL,				
Meteorological Division.	District.	Station.	Sebrary. 22nd February.	Sunday, 23rd February.	Monday, 29th February.	Trenday, 25th	Wednesday, 26th February.	Thursday, 27th February.	Priday, 28th Peternary.	Number of cain; days.	Rainfall of a seek.	Total rain- fall since lat of month.	Average total rain- fail from 1st of month.	Total rain- fall since lath May 1880.	Aver from from May date
Nonth Renar	('bumparun	Motihari Buttish Busha — Burhares	**************************************	******			0-09	000000		Nil Nil Nil	Nil Nil 0:00 Nil	Nil Nil Oraș Nil	0.38 0.41	76:33 52:67 70:33 61:70	
	Sarub	Gopalgunge Chuprah	447.44	401	090-01 090-01		******	*****	*******	NII NII NII	NII NII	Nil Nil Nil	0.89 0.44 0.83	36'48 44'20 40'74	
SOUTH BREAD	Nhahabad	Buzar Dehree Bhabo ah Sassin Armh Mekanse k				0 05	0.04	### 188 ### 188 ### 188	*****	NII NII NII NII	No No No 0'04 0'04 Nu	Nil Nil Ous 1004 Nil	0°33 0°23 0°40 0°48 0°48	47'66 42'66 88'16 29'46 62'73	
	(35 m	Annungabad teys Newadah Jehanalad Amusi Hondungar					0.07	#2	*******	NII NII NII NII NII	Nil Nil Nil Nil Nil Nil	NII NII 0:07 NII NII	0.88 0.40 0.40	39.63 39.63 30.60 30.47 54.34 20.00	1
		Sherrghats Research PahreBarawan	** **	***	****			26 111 401-144 84 174	******	NII	NII NII NII	Nil	2	17'U3 17'U3 81'90	,
	Patus	Patna in up re Rohav Barrh Bickram Hilao	****	94 	#2 THE THE #2 THE THE #2 THE	101	0.03	900 100	14 124 221 1 141 1 14 11 14 11	Nil Nil Nil Nil	0'03 Nil 0'02 Nil Nil 0 05	0.03 N (1 0.02 N (1 N (1 N (1	0'88 0'89 u'88 0'48	40.33 41.10 35.43 41.29 35.43	
	Houghyr	Hopmorrai Monebyr Jemui Gogre Gheikpura	4 444 4 444 4 4 4 4 4 4 4 4 4 4 4 4 4 4		11 10 1	*** ***	0.10 0.04	21110P 111000 211 00		NA NA NA	oros o-1n No No No No No	0.16 NII NII NII	0.99 0.90	47-70 61-77 30-64 59-34 63-33	
	Bouth Bhagul-		*** P1		1 200000 084 Adminut	000000	0162	900000 930000 930000	\$50 04 \$0.000 49000 -midpo	NII NII NII	0'02 Nil Nil Nil	Not	0'43 0'30 ?	46 08 39 34 46 07	
	Konthal Per gunnaha.	Rajmehal Godda Paktor Nya Dosvaka Deoghur Jamara Mohayama Nanchas	****	441 /			**************************************	00000000000000000000000000000000000000		NU NU NU NU NU NU NU NU NU NU	NII NII NII NII NII NII NII	NII NII NII NII NII	0°27 0°54 0°33 0°78 0°03 0°35	50 100 42 114 73 50 50 177 40 40 43 31 90 61 65 67	
CHUTTA NAC-	Hamribegh	Pagnamba (Giridi).	*****	1+0+04	141004	14158			******	NII	Nil	NII	0.00	85'90 4P'10	П
		Bennanier Mahud: Hili- Juomera Hills Barks Chatra Karapisha kampaor		100 f 0	1		**************************************	112 MB 0		NII NII NII NII NII	NII NII NII	No. 1 No. 1 No. 1 No. 1 No. 1 No. 1 No. 1 No. 1	0:21 9:28 9:47	80'84 43'00 81'86 66'04 89'88	
	fohardugs	Lohar-lugga Ranchi Pelewow Stils Ralumat Hossenabad Gorwah	## ## ## ## ## ## ## ## ## ## ## ## ##			###### ###### ###### ###### ###### #####	40 40.0 pr 40.00 50.00 80.00 1	######################################	PP- 444 bodded decode 440005 450005	NII NII NII NII NII NII	No.	NII NII NII NII NII NII	0.60	45°24 83'61 84°14 83°60 41°40 99'77	ı
	dingbhoom	Chrebases Chakradhar-				******	.41000	******	0 14 HD0	Nil Nil	NII	NII NII	0.01	44°78 40°80	
	Manbhoom	Chatetlie	***		*** **	******	000000	**- ***	*****	Nil Nil	2011 2011	NO NO	0100	88:70 83:80 3: 43:88	
		Gobudpore . Raghunsth- pars. Barrachtoom		**************************************	497.00			000494 000494	649161 549494	NII	Nil	NII NII	0.88 0.88	\$3510 \$3510 \$3591	
		Jhaide	000 to 00	reals reals	******	# 11114	987107	-40-00 -40-00	********	NI	Mil Mil Mil	Nil Nil Nil	,	61'42 68'80	

Replenation. - Indicates that so rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the

CALCUTTA, the 5th March 1890.

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 28TH FEBRUARY 1890.

THE moteorological conditions of the previous week were those which generally prevail immediately before the commencement of the hot season in Bengal. Pressure was in decided defect of the normal; temperature was from 3° to 5° above the normal, while humidity was rather high, and the winds blowing generally were showing a more strongly-pronounced southerly element in them than they had done in the week before. In all these circumstances there were decided indications that the period of the north-east mensoon was drawing to a close. On the 22nd pressure generally increased slowly at the northern stations and fell over the southern half of the province; temperature generally also rose slowly, though the light wind current blowing over the province was a little more northerly than it had hitherto been, and weather continued quite fine. On the 23rd a further rise of pressure took place, but on this day it was accompanied by a decided full of temperature, the fall at some stations equalling 3° and 4°. Winds also on the 23rd were westerly and north-westerly at the majority of stations. On the 24th there was a further slight fall of pressure, greatest over parts of North Bengal, but temperature had risen by an average amount of about 1° to 2°. Wind directions on this day again became distinctly more southerly at the southern stations, but weather remained fine On the 25th there was a further rapid fall of pressure over North Bengal and part of Behar, resulting in the formation of a feeble but distinct low-pressure area, round which there was a very partial cyclonic circulation of winds. The slight disturbance appears, however, to have been sufficiently influential to produce a few dust storms and nor'-westers, in some cases accompanied by light rain, and on the morning of the 26th about eight or ten statious in Behar reported slight showers. Temperature generally rose on the 25th, but on the 26th there was rather a sharp fall, due perhaps to the effect of the slight disturbances on the 25th, the fall at several stations exceeding 5°. Pressure continued to fall on the 26th, when it was decidedly low over practically the whole of Bengul, and winds on this day became more or less southerly at almost all stations. On the 27th pressure had risen rather rapidly over the whole province, but still there was a feeble area of low pressure over North Bengal and North Behar; temperature rose rapidly over the whole area except the western part of Behar, the rise at many stations ranging from about 3° to 6°, and winds became less southerly and more strongly westerly than they were. On the 28th, or the last day of the week, a further rapid rise of pressure took place, the increase being largest in North Bengal, and thus the low-pressure area, which had previously existed, was almost entirely filled up. On the 28th winds became decidedly more northerly than they had been, and this at once caused a rapid fall of temperature, the fall in the 24 hours in some cases ranging up to nearly 8°. On the 28th also a few showers were reported in East and South Bengal and in Orissa, but they were of little importance.

Pressure.—The mean pre-sure for the week has been below the normal in all districts.

The usual defect has been from three to four hundredths of an inch, but in North Bengal and North Behar it has equalled from four to six hundredths of an inch while in Chutia Nagpur it has only been about one hundredth of an inch.

Temperature. - As noticed in the general summary, there have been rather large and sudden changes of temperature during the week, but on the whole there has been a distinct increase in all districts. The general rise in the various districts over the mean temperature of the previous week generally ranges from about one and-a-half to three degrees, and for the seven large meteorological divisions it averages about two degrees. The general average temperatures in the various districts continue to be about two to four dogrees above the normal for the season, and the average excess equals almost three degrees. Some very high maximum temperatures have been recorded during the week in the different districts, and thus in Orissa, Cuttack on the 2"th registered 98 4°; in South-West Bengul, Midnapur on the 27th registered 96.3°; in South Behar, Nya Doomka registered 92.6° on the 27th, and in South Bengal, Maldah on the same date registered 92.5°.

The actual temperatures during the week, the range from day to night, and their variation from their normal values, are beet seen in the following table, where the average, maximum, minimum, and mean temperatures at nine typical stations in different districts of the province are given together with their normal values. It will be seen that both day and night temperatures have been rather largely in excess, but that the day temperatures have

shown greater excess than the minimum or night temperatures :-

Table showing the casess or defect of the actual mean temperature from the normal for the week ending 28th February 1890.

						Normal mean maximum tem- compline for the week andline 23th Pebraary.	Actual moon marings to the scrature for the west ending 24th Pebruary 1896.	Variation of actual mean from the normal.	Normal mean minimum tem- porature for the week ending	Actual meun minimum tem- peratura for the weak emiling Tith February 1806.	Unristion of actual mes n from the normal,	Normal mean duly tempera- ture for the wood ending 2sth Tabrangs.	Actual mean daily tempera- faire for the week anding 2mts fairmary 1850.	Varia' r of actual mesa from the arread.
Cultach Calcutte Daves Ilurdwas Pains Gya Formous Hearibogh Dorforting	000 000 000 000 000 000 100 100 100	10 10 10 10 10 10 10 10 10 10 10 10 10 1	200 610 900 900 -600 984 440 844	210 111 122 123 124 124 124 144	### ### ##############################	BA14 8574 8072 8774 9478 8373 8477 4676	9610 RN 6 RR 5 RI 18 RI 8 87 8 85 8 84 7 84 9	+2'0 +3'0 +3'1 +5'4 +1'6 +3'8 +3'0 +3'0	68'0 04'1 61'd 61 7 60'1 50'9 63'5 57'4	69:3 61:7 63:6 63:7 63:7 63:0 84:9 84:4	+1'5 +2'0 +2'0 +2'0 +2'0 +2'0 +2'0 +2'0 +2'0	80°7 71°7 73°9 70°3 60°4 72°7 60°3 60°5 60°5	76'0 76'0 77'1 73'3 73'4 70'3 72'1 40'8	+T0 +1'3 +2'1 +2'1 +3'6 +1'7 +1'0 +1'0 +1'1

Rainfall.—As stated previously, a few local showers have occurred in East Bengal, Orises, and in Behav, but the amounts have been so small that the average falls in these districts only amount to a few hundredths of an inch. The rainfall therefore during the week has been practically of no importance.

The following table gives the summary of the temperature and rainfall days of each of the seven meteorological divisions of the province for the week onding Friday, the 28th of February 1890:—

			TEMP	RRAT	7 18.18					R	ATHPA	LL				
	4 40 1	week.	Averages for week.		above or	Of week.			Rainy dayo.			Since Inter of mouth.		May 1889.		
METROROLOGICAL DEVISIONS.	Highest observed during	Lowest observed during	est of each st of each		A swrage mest of week below normal mest of	Average.	Normal average.	Variations	Average number in week,	Normal average mum-	Variation.	Average.	Vermal everage	Average.	Morenal average.	
Orima*	05'6	60.6	8916	66 6	79'1	+1'8	0.03	0 26	-0.13	0.3	0 3	-0.1	0.03	0.01	67.11	54'37
Bouth-West Bengal	96 3	8118	90 0	63'5	76 H	+ 9.8	Nil	P115	-0:15	0.0	0.9	-0.2	Nil	1'00	68 81	53100
Kast Bengal	yorg	87*0	8160	GS*7	7812	+8:0	9.01	0.12	-011	0.1	0.6	013	01616	1 103	70160	75'81
North Bengal	92.5	49'7	87'1	5715	75'3	+ 318	Nil	0102	-0 00	0.0	0.1	~01	NII	0157	78 54	71'00
North Behar	8312	50'0	86°P	849	Ø910	+310	0'01	อาปัช	-0"//1	0.1	01	D	0.01	0.42	57'00	4P18
outh Bchar	92'6	55'7	87'9	80.0	73'9	+4*0	0.415	0.03	-0.01	0.2	0.1	+01	0.07	0.44	64'18	44130
Shutis Nagpur	57'2"	55'4"	847"	59 6°	72.5*	+2.20	Nil	0.02	-0.63	80	6.3	-0.3	Nil	0.67	43 06	50 '2

[·] Poorce, Durbhanes, Chupra and Chyebases not included.

METEOROLOGICAL OFFICE, BENGAL;

A. PEDLER,

The 4th March 1890.

Meteorological Reporter to the Gort. of Benyal.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 23rd February to let March 1890.

MONTH. 10 0 0 0 0 0 0 0 0 0		i	A. M.			Time	CRATURE.		1	H	TUROMETH1	r.	three,
76b, 1890 23rd 29 986 77·0 89·0 24·1 64·9 70·1 69·6 597 64·0 60 24·1 99·7 78·7 90·0 22·6 67·1 80·0 70·6 923 65·2 60 24·1 80·069 77·0 88·0 22·1 66·9 77·6 72·6 73·5 70·0 78 23·1 23·1 24·1 78·2 92·0 27·0 61·4 81·6 70·1 602 61·2 61·2 61·3 81·6 60·0 602 61·2 61·3 81·6 60·0 60·2 61·2 61·3 81·6 60·0 60·2 61·2 61·3 81·6 60·0 60·2 61·2 61·3 61·4 61·6 61·4 61·6	мокти.	Date.	corrected and r		Naximum.	Range.	Minimum,	y bulb at	bulb at	X K	point.		Rainfall past 24 hours
tar. , lat 20 983 70.6 88.2 23.3 64.9 70.6 73.6 740 70.6 74	79	24th 25th 27th 28th	29 965 997 30 009 20 951 979	77 0 78 7 77 0 78 2 78 9	89 0 90 0 19 0 92 0 90 4	22 6 22 1 27 6 23 0	64 9 67 4 65 9 64 4 67 4	79·1 80·0 77·0 81·6 81·8	70 6 70 6 72 0 70 0 08 0	507 623 736 602 523	65-2 70-0 64-2 60-2 46-2	60 60 78 64 48 29	lach N

The mean 10 a.m. pressure of the seven days	***	**	404	29.990 0
The mean temperature of the seven days The extreme variation of temperature	000	# 4 4		77·6 27·6
The maximum temperature	160	* * * *		92.0
The mean 10 a.m. relative humidity of the sev	en days	***	***	58

The total fall of rain from 23rd February to 1st March 1890 ... Nil

The daily mean temperatures are the crude means of maximum and minimum temperatures.

O. Lattle,

For Meteorological Reporter to the Gost. of India.

Mateorological Office, India;
The 3rd March 1890.

MEMORANDUM.

During the month of December 1889, the total number of deaths registered in the 45 districts in Bengal amounted to 184,528, or at the rate of 33:60 per 1,000 among a population of 65,859,534, against 147,795, or 26:88 per 1,000 in the preceding month, 166,117, or 30:12 per 1,000 in December 1888, and an average of 157,454, or 28:68 per 1,000 in the corresponding month of the past five years 1884—88. There was thus a considerable increase of mortality in December 1889, as compared with corresponding past periods, which is due, not to the greater unhealthiness of December 1889, but to better registration in that month than in the corresponding periods of past years. Of the 184,528 deaths registered in December 1889, 95,844, or 35:16 per 1,000, were males, and 88,684, or 32:04 per 1,000, were females, the former being to the latter in the proportion of 109 to 100. females, the former being to the latter in the proportion of 109 to 100.

2. In the following districts deaths were registered at the highest-rates, the rates at

which deaths were registered in the corresponding month of 1858 are also shown :-

Districts.					Districts.			
				itte during-			Ratio per m	the during-
			1100. 1659.	Dec. 1638.		,	Dec. 1899.	Dug. 1888
Backerganj			65.83	41:40	Paridpore	***	41:40	28.44
Dinajpur	0.01		62.80	4 3180	Dac a		40-82	38 60
Noaldali	4.004		52 63	34164	Monghyr	200	39.00	28:44
Jessore	0.00		61 100	46.32	Tipperah	101	38.88	32.04
Julpaiguri	* 2		49:44	48 44	24 Pergunnaha	111	34.92	40.92
l'oori	***	***	49.20	27:34	Pubna	2.84	34.68	32.64
Balasore	***	4 4 4	4873	58-4:R	Midnapore	* * * *	84:32	28 44
Outtack		791	46'68	2+76	Maldah	444	84:20	56.76
Hughli, including	Serampore		45.00	31.80	Chittagong		32:64	23-40
Bogra			45 00	80 72	Darjiling	100	33 1 4	23.20
Howrah	* * *		43.20	38.60	Bhagulpore		31:08	25 92
Rungpore	o # 2	4 9 9	42 73	38.76	Barbhum	***	50 60	31 80
Rajshahye	P 9 1		42.68	33 60	Purneah	***	3.160	41156
Khulua		100	43 12	45 60	Mymensing	444	30-36	24.60

3. The table in the margin exhibits the rates at which the population suffered from the various death-causes in December 1889 as compared with the corresponding month of the preceding year and the average rate of 1884—88:—

					matio per mille durin	rg—
				December 1889.	December 1588.	Mean of previous ave years, 1984 -88.
Cholers	**	+ 0 *		1.80	1.92	2:40
Small-pox	0.64			.08	.()2	104
Fever	40.1			25.32	22 56	21 24
Bowel-complaints			0.0	15013	*194	-84
Injury	0 0 1	* * 4	B (0 A	.13	.12	.13
Other causes	111	***	= fs v	4.92	4:44	872

It will be seen that the mortality from fever was, as usual, very high, and that there were more deaths from the diseases classed under the head of "Other causes" in December 1889 than in

the past periods with which that month is compared.

The districts in which the greatest loss of life occurred from cholera, fever, and the unspecified maladies coming under the head of "Other causes" are:—

Captera.			W. F.	001 +			Other C	DEMOGRA		
	-	atio per mille,				Ratio per melle.			B	tatio per
Faridpore	401	9.36	Dinajpur			49 32				
		7.20	Julpaiguri			46186	Poori		206	24.96
Daces		7.08	Nonkhali		194	44 64	Backergan			17:16
4160000	- 4 9	6.44	Jessore	***		4) 68	Cuttack	J	***	12:00
Howrah	411	6.02	Lungimre			89:26	Balasore			11.88
Poori		4 92	Rajshahyo			37.68	Sarun		***	10.08
Cuttnek		4:32	Bogra	***		37.92	40.00		> - 1	1000
Balasore	000	3.84	Backergani		* * *	84.44				
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Tippersh	Sametra.	3.00	Pubna		= 0 >	32 01				
Hughli, including	Octamin.	0.01.	Kaulna		***	31.90				
pore.		8 12	Maldah	* * *	* * *	31.08				
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Backergan	0 = 0	2:40	19	unning	Delam-	30.00				
Nonkhali	***	2 40	pore.			00.10				
		1	Purneah	+ 0.0	***	29-40				
		1	Chittagong	0.0.0	4 0 0	27.60				
		İ	Pariapore	2.00	100	26:04				
		1	Darjiling	0.0.0	* * *	25.80				
			Tipperah	+ + 9	4 = 0	26.80				
			Bhagu pore	p. 4 -	0.0	25 32				
		- [Cuttack	0.01	111	35.32				

Small pox prevailed noticeably high only in the Poori district (mortality 1:32 per 1,000 of population)

The following statement shows the rates of mortality distributed according to 5. Claus and Age.

Annordita	g to Class.							Acces	ding to Ag	e.	
Christians Hindus Mahomedans Buddhists Other classes	, 10 Cease.	000 011 145 150 000	000 000 000	Ratio per mate. 18:48 3:3:04 88:04 28:68 17:04	1 as 5 10 15 20 30 40 50	8 9 8 9 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	year der 5 ye 10 20 30 40 50 nd upw	### ### ### ##########################	 	001	Ratio per mille 253 68 36 96 16 92 13 44 20 40 19 93 22 56 80 84 48 13 91 44
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W. H. GREGG, Dip. Publ. Health, Camb.,

Sanitary Commissioner for Bengal

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UPPIUR UP SANITANY COMMISSIONER FOR BUNGAL,

The 1st March 1850.

MEMORANDUM,

THE principal Municipalities in Bengal presented, during the week ending 15th February 1890, a birth-rate of 21.7 per 1,000 of population, against 28.3 per 1,000 in the preceding week ending 8th February, showing a decrease in registration, the death-rate returned by these Municipalities was 24.1 per 1,000 of population against very nearly the same proportion, viz., 23.9 per 1,000 in the previous week.

2. The following Municipalities registered the highest proportions of births and death-rate registered the highest proportions.

deaths:-

		Births.			Dec	stha.		
				Ratio per mille,				Ratio per mille.
Narainganj			***	45 5	Poori		***	117.5
Monghyr		9 6 6	+ 4 5	38.9	Narainganj	* 6 *	100	68-0
Darjiling	* 8 8	4.70 4	* 1	37:0	Darjiling	h	* * *	44.2
Arrah	m g =	4 4 0	A 6-5	34.7	Gya	1+1	0.00	42.8
Serampore	4.4.	0.01		83.4	Littonnon	0 + +		41.7
					Berampore	# 0 e	9.9 -	87.7
					Burdwan	* * *		37:3
					Rampore Beauleah	1.0	4.6 %	35.1
					Kishnaghur	* * *	* * *	31.2
					12 south meeting at the	* * *	0.1.5	30.3

3. In comparison with the results of the preceding week, the only noticeable point is that there was a decrease in mortality from fever, vide figures below:—

				Ret	tio por mille during	the weeks ending-
				18	th Pobruary 1890.	8th February 1880
Cholera		 4.6.1	***		3.1	2.8
Small-pox	4 + 4	 			.8	1:1
Fever		 			9.1	10.3
Bowel-compla	aints	 # P 1		1.9.0	3.4	8.3
Injury	*1		* * -		.2	5
Other causes		 0.0-4			7.2	6.1

The highest rates of deaths from cholera, fever and maladies coming under the head of "Other causes" were returned from the following Municipalities:-

THE STATE OF THE S	. Cholera.			Faver.			Othe	r causes		
		tatio per mille.			9	Ratio per millo.				latin per mille.
Poors		 39 8	Darjiling			2.6	Poori			18-9
Gya Howrah		 89	Kishnagl	hur		24:6	Serampore		***	17.6
Howrah	4.4.4	 4.6	Jessore				Midnaporo	*10		17.0
		i		Beauleah	0 = 1		Narainganj	410.0		16.6
		1	Poori	***	* 4 4	23.1	Gyn	5 4 4	0.10.1	109
						1	Bhagulbore			10.0

The mortality from small-pox in the Poori town, although still high, was considerably less than that of the preceding week ending 8th February, viz., 23:1 against 39:8 per 1,000 of

3. Classified according to Sex, Class and Age, the mortality of the week stood as Jollows :-

According to Sex.	According to	Class.		Accor	ding to A	ge.	
Males Ratio of male deaths to Dvery 100 female deaths, calculated on the pro- portion such mortality bears to the total male and female population	Christians Hindus Mahomedans Other classes	•••	29 % 24 6 22:9 70:8	Under 1 yes 1 and under 5 10 20 80 40 60 60 years and	5 years 10 " 15 " 20 " 30 " 40 "	-	Matto por wiffe. 163.6 28.6 11.3 10.3 9.0 12.3 17.6 22.0 30.9 70.9

W. H. GREGG, Dip. Publ. Health, Camb.,

The 3rd March 1890.

Sanitary Commissioner for Bengal.

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OIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 1st March 1890, as compared with the corresponding week of the previous year.

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NATURE	OF CARGO.		Number of bosts.	Weight of carpyo.	Tollage,	Number of bonts,	Weight of	Tollage
			No.	Mds.	Ra,	No.	Mds.	Ra.
Rice and paddy Jute Firewood Other articles	034 000 000	004 004	1.886 1.99 78 1.025	2,31,3°5 61,000 44,525 2,53,090	3.754 1,107 670 3,439	1.113 67 195 1,166	2,81,030 50,675 1,07,720 2,82,645	5,068 923 1,605 4,695
	Total	200	2,692	5,89,950	9,470	2,541	7,22,910	12,291

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN BAILWAY.

Approximate Return of Traffic for week ended 22nd February 1880, on 1,625} miles open.

	COADBING	TRAVEL	C.		MERCHANDISE TRAP		A E	Other narntnes		TRAFFIC	Train-mili	es mon.
i	Number of passengers.	Receip	sid.		Weight carried.	Receipts.		(estimated).	Fotal earnings.	Conching.	Merchan- dise,	Total.
		Re.	A.	p.	MDs. c.	Ro. A.	p.	Rs. A. F	Kb. A. P.			
Istal traffic for the week Orper nite of railway For provious 7 weeks of half-	201,503	3,21,779	8		27,84,908 30	6,21,8%5 1 407 10		21,513 15 0 14 1 8	0,60,188 G () 6:.3 5 p	69,409	90,8861	164,937
Lest " m m m	1,728,100	19,75,886	7	0	1,70,72,824 20	39,43,000 11	0	1,32,510 12 0	60,49,400 14 6	446,313	698,617	1,039,930
Total for 6 weeks	2,666,611	12,18,365	15	0	1,09,27,180 19	48,04,003 12	0	1,54,324 11 9	70,13,594 4 0.	514,723	690,141	1,504,867
COMPARISON.										1		
lotal for corresponding week of previous year	270,539	3,88,498	2	11	28,63,794 30	6,07,170 8	D	14,740 7 3	9,47,411 18 11	69,906	97,966	167,77
the week of previous year a		213	۵	11	hmy **	80H Q	3	9 10 8	621 0 1e	*****	101.00-	****
MALIORS ROPE *** *** ***	1,984 976	23,29,657	12	-6	2,20,12,283 30	47,07,984 2	0	1,19,596 1 3	75,37,037 15 1	815,863	765,764	1,281,11

Approximate Statement of gross receipts of the Rast Indian Railway, prepared in accordance with Public Works
Department Circular No. XXI, Railway, dated 23rd July 1883.

Ascutet Lind	PRESENTE !	##PING 1069.	Ruorit	TO FOR WEEK PRESULTY 15	ENDITO		RECEIPTS FRO PRIL 1888 TO 23 PERRUARY 188	RD	Δ1	. BECKIPTS PROPERTY 1888 TO 22 FEDRUARY 1890	ND	Total	Tota:
Mean buttered	Receipta,	1	Mean mileage worked,	Receipts.		Mean nilleaste worked.	Total receipte.	fer mile worked per week.	Monn mileage worked.	Total receipts	Per mile worked per week,	1890.	1890.
	ito,	Rn.		Ra.	Ro.)	Re.	Es.		Rs.	Ra.	Ro.	Ro.
1,525)	9,47,419	691	1,698)	9,06,186	683	1,8884	3,97,76,761	055	1,820}	3,96,39,077	551	\$100.000	2,44,620

PATNA-GYA STATE BAILWAY

Approximate Return of Traffic for week ended 22nd February 1890, on 874 miles open.

==========	COAGMING	TRAFFIC.	MERCHADDIAN TRAFF	AND MINUSAL	Other earning	Total saruing.	TRAFFIC T	BAIR-BILD	101
	Number of passengers.	Roceipts.	Woight oarried.	Receipts.	(estimated).	10001	Conchu g.	Marchan-	Total
Total traffic for the week Or per mile of railway For previous 7 weeks of half- pear Total for 8 weeks	13,465 216 86,306 98,768	Ro. A. P. 8,227 8 0 143 13 8 44,552 1 0 52,779 9 0	26 pa. 0. 28,289 10 299 20 2,40,484 20 2,75,744 0	26,045 9 0 18,838 P 0	8a. A. P. 48. 7 0 9.13 6 8a4 8 0	Re. A. P. 10,770 6 0 165 6 7 60,031 8 0	1,932 11,667 13,599	696 4,670 5,903	2,866 16,327 16,047
Total for corresponding week of provious year Per mile of railway corresponding week of previous year Total to corresponding date of previous year	268	8,741 15 4 182 13 3 83,216 15 6	59,005 20 1,046 0 2,62,019 20	8,988 16 0 30 7 3 14,140 1 0		11,638 12 7 198 15 9 67,633 9 8	1,947	4,888	2,304 19,156

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works

Department Circular No. XXI, Bailway, duted 23rd July 1883.

RECEIPT 23ED	PEREUAEV	ENDING	RECEIPT 22aD	PERCALL	E NADING	AT	L RECHIPTO PRO PRIL 1888 TO 33 PEDRUARY 1881	RD	API	RECEIPTS FRO RIL 1980 To 228 RBBI ARY 1890.	(8)	Total	Total
Mean mileage worked.	Receipts.	Per mile worged	Mean mil-age corked.	Receipta.	Per mile worked.	Mean mileage worked	Total receipts.	Par mile worked per week,	Mean intleage worked.	Total receipts.	Per mile worsed per week.	1890.	1860.
672	Rs. 11,039	Rs.	571	Rn. 10,770	Ra. 158	672	No. 6,36,300	Re. 162	57}	Ra . 4,43,704	100	Ra. 17,402	20010-

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 22nd February 1890, on 231 miles open.

	COACHING	TRAFFIC.	MERCHANDISE /	NO MINERAL	Other carnings	Total	TRAFFIC	TRAIN-MEL	es ats.
2.172	Number of passengers.	Receipts.	Weight carned.	Receipts.	(entimated).	earnings.	Conclusing.	Merchan- disc.	Total.
		Rs. a. P.	Mine. e.	Ba. A. P.	Re. A. P.	Ru. a. r.			70
Total traffic for the week Or per mile of railway	21,784	6,981 14 0 315 72 A	18,064 80	440 8 0 10 14 2	7 4 0 0 5 8	7,431 10 0 334 0 1	1,104	******	3,100
Lot. binations 1 meers of man.	135,862	35,431 1 0	90,213 10	8,181 10 0	47 13 0	86,410 8 0	BR8,6	401	6,314
Total for 8 weeks	162,626	40,812 15 0	1,03,948 0	3,874 2 0	88 1 9	45,642 2 0	0,907	846	7,000
COMPANADOR.								, it	,
Total for corresponding week of previous year	23,8521	5,938 4 8	13,894 90	688 10 0	7 3 0	6,872 0 8	890	78	901
Per mile of railway correspond- ing week of provious year Total to corresponding date of previous year	160,702}	208 9 11 40,889 3 9	74,513 0	19 7 1 1,006 13 0	0 6 1 62 1 D	286 6 1 43,507 1 6	6,946	618	7,40

Approximate Statement of gross receipts of the Turkessur Branch Railway, prepared in accordance with Public Works

Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPT CORD	e yor werk Padeuaky 1	ENDING	Buckir	THE FOR WEEK	endibo lew.	A	ENCEIPTS PROPERTY 1888	MID	A:	. MRCEIPTO FEO PRIL 1880 TO 52 PRSECARY 1890	ND	Total	Total
Moun mileage worked,	Receipus.	Per nulc worked	Mean nliange worked.	Receipts	l'er milu worked	Menn milensto worked	Total receipts.	Per mile worked per weak.	Mean milense worked.	Total receipts.	Per udlo worked per week.	interesse in 1890.	2,000.
	Re	Re.		Rs.	Re.		Ro.	Re.		Ra.	Rs.	a cff	20
201	6,372	286	22.5	7,433	334	221	2,50,380	289	221	2,47,515	237	******	2,074

EASTERN BENGAL STATE BAILWAY.

(INCLUDING N. B., DACCA, K. AND D., AND ASSAM-BEHAR SECTIONS.)

Approximate Meturn of Traffic for meck ended 15th February 1890, on 747 miles open.

						_		-						-			
	COVCHIME	TRAPPI	ic.		Marchard		AND MIN	i k	A.L	Other earnings (estimated),		Tot	n.)		TRAFFIC	Tuạis-nile	n kvir.
	Number of passengers.	Conshi			Weight carried,		Receip	La.		theluding stemp-bons,	•	Marinia	ngo.		Coaching,	Merchan-	Total,
		Re.	A . F		M ps.	8-	Ro.	A.	ъ.	Re. A. F.		Ro.	▲,	9.			
per mile of raniway	142,370 191	85,990 115			800 800	0	1,08,080 137	0	0	16,500 0 0 *6 0 e	2,0	6,071 201		0	28,140	28,170	51,110
he pravious d wooks of half-	917,790	4,49,680	0	0	35,40,470	0	7,68,030	Ü	0	1,03,860 0 0	13,5	0,27	0	0	128,571	193,770	823,041
Total for 7 weeks	1,000,100	5,84,570	0	0	41,40,990	0	8,70,110	0	0	9,19,660 C O	15,3	4,34	9 0	0	151,411	221,540	373,851
COMPARISON.																	
that for corresponding week of provious year mile of railway correspond-	albb,245	94,185	0	0	4,73,904	0	75,097	0	0	18,215 0 0	1,8	6,40	6 6	0	22,472	30,000	45,003
maring of provious year	231	140	0	0	704	0	113	0	0	°5 0 0		25	7 0	0	Dv+14+	950	*****
presions your	987,260	8,14,46	0	0	33,31,187	0	6,68,550	0	0	1,11,062 0 0	12,9	1,00	0 0	0	148,100	101,933	350,092

^{*} Excluding steamer earnings.
a Due to Purnima Bathing festival.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

	PRESUARY			TA POR WERK PRINCERY I		A.E	L RECRIPTS PR PRIL 1888 TO 16 PERRUARY 1886	TH	A	RECEIPTS FRO PRIL 1889 TO 15: PRESUARY 1890.	T.E.	Total	Total
Renn ade.	Receipts.	Per mile worked.	Moun milenge worked.	Receipts.	Per mile worked.	Mosn mileage worked.	Fotal recespts.	Por inte- worked por week,	Mean cullunge worked.	Total receipts.	rer mile worked per whok.	1889-90.	decrease in 1389-90.
en :	Re. 1,85,494	Rs.	747	Ma. 2,94,070	Rs. 273	673	Rs. 95,33,429	Re. 307	726	Ra .************************************	20 0	Rs. 7,53,991	26.

[•] Audited up to week ending 51st December 1589.

BENGAL CENTRAL BAILWAY.

Approximate Return of Traffic for week ended 15th February 1890, on 125 miles open.

	COACRING	THAPPI	c.		MERCHAND	TR	AND MIN	ERA	2.	Others						TRAPPIC	TRAIN-MIL	EO BUB.
,"	Number of passengers.	Conchi			Weight carried.		Receip	io.		Other on: {estimat			Tota			Conchiug.	Merchan- disc.	Total,
		Ru.	▲.	r.	M Ds.	8.	No.	4. P		Re,	۵.	p.	Re.	Δ.	7.			10 "
altraffic for the week	209 209	10,150		0	84,310 434		8,070 25	0 0	3	60		0	13,250 106	0	0	3,736	1,936	5,672
brustom d mount of water	140,500	60,430	0	0	2,59,580	0	18,800	0 (9	460	0	0	76,410		0	20,814	40,788	31,662
Total for 7 weeks	180,290	70,870	0	0	8,12,964	b	18,870	0 (D	520	0	0	89,000	0	•	24.550	12,754	35,574
a for corresponding week of the state of the	29,830	11,041			88,761	0	2,680					0	18,706	-		3,783	1,937	8,690
to corresponding date of	186,466	61,043		0	470 5,87,108		16,277	0 1			0	0	110		-	25,127	13,012	50,230

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

lor ng	PERSONAL P	budino		ra pon wark Prontagy 1:			L ENCRIPTA PRO 1898 TO 16PH PE 1889.		APRIL	L aucutric yn 1889 yn 1870 F: 1890.	EBRUARY	'l'otal	Total
th ·	Receipts.	Par mile earked.	Mean intleage worked.	Receipts.	Per mile worked.	Mean mileace worked.	Total receipts.	Por mile worked per wook.	Mean niluge worked.	Total receipts.	Per unito worked per week.	increase in Issuese,	decruse in 1480-10.
		9.			Kn.		ъ.			-			
	Ro.			E-0,	wh.		86.	Ra.		Re.	Ra.	Re.	Ra.
	13,765	110	186	18,250	106	195	4,81,819	110	195	96,40,111	113	17,792	11000

[•] Audited up to week ending 31st December 1889,

DACCA STATE RAILWAY.

Approximate Return of Traffic for weak ended 15th February 1890, on 86 miles open.

	оменно	TRAVER	ì.	MERCHARD	BR I	AD MINER	AL	Other car			Total			TRAFFIC	TRAIN-MILE	4 Rath.
	Number of passengers.	Conchi		Wouth	1	Receipts.		(entirent	od)		earning	gu.		Coaching.	Merchan- dian.	Total,
		Rs.	A. F.	Mps.	н.	Re. A	. P.	Ra.	Δ.	r.	Ra.	ā.	r.			
Total traffic for the week	15,700	6,370		22,910		2,010 (23 (3 . 0	220 3	0	0	8,610 100			2,450	79e	3.22
For previous 8 weeks of half-	94,830	34,783	0 6	1,50,670	0	19,040	0 0	1,100	0	0	34,910	0	0	18,918	4,014	18,73
Botel for 7 weeks	109,830	41,190	0 0	2,00,550	0	\$1,050	0	1,890	0	0	65,670	D	0	16,95%	8,764	200
COMPARISON.					i					Ì						
Total for corresponding period				12,263	0	1,316	0	98	0	0	6,387			1,4R1	761	3,11
of previous of saffwar corresponding	15,935	4,975	0 0	143	0	15 (0	1	0	0	74	0	8	515144	145000	***
period of previous year Just to corresponding date of previous year	177 103,401	31,878	0 0	81,283	0	8,734 (0	1,236	•	0	41,548	0	a	16,091	6,312	Tital

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dasca State Railway.

Receipt 16TH	PEBRUARY	200 in 0		TS FOR WERK	ending	TOTAL APRIL 1	RECEIPTS PRO 888 TO 16TH PRI 1880.	M INT	TOTAL APRIL I	RECEIPTS FRO 1869 TO ISTA FRO 1880.	M 187 BRUART	Total	Total
. Mean mileage worked	Receipts.	f'er mils corked	Mean mileage worked.	Receipts.	mile	Menti milrago worked,	Total receipts.	Par mile worked par week.	Mass mileage worked.	Total receipts	Par millo worked por work.	increase in 1889-90.	Interes i
	Ro.	Bs.		Ro.	Ba.		Ra.	Ra,		Ra.	Re.	Ru.	Rt
86	4,347	74	84	a B,610	100	86	2,65,019	87"	86	*3,48,818	84	68,709	*44497

^{*} Andited up to week ending 31st December 1839.

NALHATI STATE BAILWAY.

Approximate Return of Traffic for the week ending 22nd February 1890, on 27 } miles open.

	COACRIN	e Trappi	C.		HERCHARD		AND MINE	BÁ	п.	Other carmings	Total	1	- TRAFFIC	TRAIR-MILE
U3A 44 P	Humber of passongers,	Coach			Weight carri	ed.	Receipt	b. "		(estimated).	earnin	KB.	Denching.	Merchan-
• 9		Ba.	A.	P.	Mps.	5.	E0. 4	. 1	. [Rug A. P	Rn.	4. 2		
Total traffic for the week	4.715 178	1,818 ,60	0	0	10,741 503		938 84	9 6	0	9 0 0	2,465 90	0 0		864
For previouslis weeks of helf.	19,865	c4,503	0	0	58,765	0	5,681	0 (D.	99 0 0	14,953	0 (8,548	\$10a
Tatal for 7 weeks	84,580	8,821	0	0	1,02,627	0	6,519	0 (0	* 105 0 0	15,649	0 (3,651	8,632
Soral for corresponding week of previous arm	3,374	1,250	0	0	18,348	0	072	0 (0	17 0 0		0 1	500	417
Per note of railway correspond-	124	47	0	0	-\$63	0	86	0 (0	1 0 0	84	0 (0	805,00+
Total to corresponding date of	25,241	9,824	0	0	1,21,150	0	6,746	0 (D	122 0 0	16,892	0 1	0 5,006	4,279

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railwog.

Receire Ship	Receipts. mile clear Receipts.					(A)	h encurry property in the second seco	ND	Ar	kudhipya yac ini. 1889 ya 29 kuhuary 1400.	ND I	Total	de
Mean worked.	Recospie.	mile	· ilengr	Receipta.	Per mile worked.	Wean milest worked,	Total receipts,	Messig fact moneared furje- just	Mean mi enge worked.	Total recoupts.	for mile worked part week.	16h9-90.	
571	10. 2,270	Ra.	271	Re. 8,465	Re.	874	Ro. 91,03 5	Ro. 75	371	Ba. 91,450	Ra. 78	Mella,	

TIRHOOT STATE BAILWAY.

Approximate Return of Frage for the week ending 22nd February 1890, on 273 miles open.

	COACMER	· TEATY	o,	MERCHARDI		AND WIR	BR.	A II.						THAPPIC	TRAIN-MIL	AN BUR
gr u	Number of passengers.	Constitution		Wought carried.		Lacoup	n a		filter en (entime)		Tesa sarni			Guebas.	Merchan due.	Total.
	4	Re.	Δ. 2.	Muo.	8.	Hs.	Δ,	1	il.	A. F.	Re.	Α.	P		Minding Co.	
natitradia for the week	48 096 ⁹ 160	10,694 d#	6 0	3,44,448	0	86,479	0	h B	3,716	() (J	51, ium 205	0	0.0	5,540	10,145	16,130
7007	330,200	1,06,006	0 9	19-00,019	0	1,96,534	0	0	28,190	0 0	3,72,210	0	0	61.521	86,954	100,456
Total for 7 weeks	875,894	1,68,500	0 0	20,44,489	0	1,31,903	0	0	32,616	0 (1	4,31,109	()	0	47.507	GSI, ()WD	116,008
COMPARISOR.											-	-			' A	100
othi for corresponding week	44,147	19,557	0 0	1,86,214	0	14,812	0	0	2,961	0 0	37,410	0	0	A. (121)	7,002	12,896
or inite of railway corresponds	100	72	0 0	18717	0	84	Q	D	1	0 0	127	0	04		4110	414 0000
provious year	210,561	1,22,968	0 0	10,74,011	0	90,074	0	8	24,265	0 0	2,47,192	U	0	41,729	46,414	145,248

[·] Steam-boat earnings excluded in calculating "Total earnings per mile of Satissay."

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirkant State Railway.

BECRIFFE SEED F	POR WAR	K Badino		PERSONNER :			REGESTTO PRIL INA TO PERRUARY	o Mario		LBACKIPI PRO PRIL 1939 TO 23 FRUKUARY 1899	N D	Total	Pot
Conn p. rofc v rkud.	Beceipte.	Per mile worked.	Mean milmge worked.	Receipts.	Pay artie worked		Total recet	Per u .ie worken per week.	Mean sutlengo worked.	Total receipts.	mile worked pur week,	Independ to	1809-6
	lla.	Re-		No.	Ba.		Ra	Bo.	1	Bo.	Rs	Ris	S.o.
971	87,010	186	275	88,899	ากอิ	262.23	14,96,8	95 125	273	19,15,045	164	4.81,540	901-1
-		1	1			1	ĺ	7000				~	
	0	DA	RIEBL	ING-HIM.	ALAYA	N RA	ILWAY	COMPAI	NY, L	MITED.		Ra.	
		Approxi	mate em	mings for v	reok en	ding 8t	h Februar	y 1890	***	***		7.732	
	Le,	Correspo	onding ;	period of 1	89		: 0 ×	4 .	3. 111	* 0 *		8,656	۵.
			Increas	0 3	***		+00	2 G +	194	6/P 800		1,097	
	الطو تناويه م			-0							R	i. A. P.	
				o for week			bruary 18	90		401	15		
		Correspo	onding p	eriod of 18	39 4		***	• # •	**		13	0 1 7	
. 4		2 90 M	Increase		889		A 10 607	0.00	0.01	***	9	1 8 3 _{Qen}	_{and}
-				t January t		obruary	1N90	0 4 4		00-		40,939	
		Correspo	nding p	priod of 18t				0 0 0	48,4	# 0 0		89,604	
		۸	Increase		,		9 % 0	*44	780	6 0 4		1,938	,
		. (DARJE	ELING-H	IMAL.	AYAN	RAILW	AY COM	PANY	. LIMITED).	Rs.	- ~
		Approxi	mate bar	nings for w	eek and	ing 15t	h Februar	ry 1890		***		9,326	
				oriod of 18e			000			0.0		8,162	. 6
			Increase		100		0 0 4	* 6 *	w () (s	***		1,313	
											Rs.		
		Receipts	per mile	for week	anding	16th	February	1890	0.0	1++	183	3 13 2) 0 8	
		Correspo	maing p	riod of 188			- 96	8 6 4	0.0.4		200		
			Increas		0 0 0		***		100	***	25	8 12 6	
		Beceipts	from 1s	t January	to 15th			1 + 4	400	***		50,314 47,666	
	-	Cortesho	nama p	eriod of 188	19	40.0	***	6 0 0	0.01	4 * *	-		
		_	Increase	900	980		901	461	* * *	* * *		2,649	



SUPPLEMENT TO

The Calcutta Gazette.

WEDNESDAY, MARCH 12, 1890.

OFFICIAL PAPERS.

Non-Subscribers to the GARRITH may receive the SUPPLEMENT separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.

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1990	G (0)	Wenkly Return of Traffic Receipts on Indian Railways (1994)

LIBERALITY OF BABU BRIJA MOHAN THAKUR AND RAI HARI MOHAN THAKUR BAHADUR.

GENERAL DEPARTMENT-EDUCATION.

Calcutta, the 5th March, 1890.

RESOLUTION.

READ -

Endorsement from the Director of Public Instruction No. 1088, dated the 27th Fubruary last, and its annexure.

The Lieutenant-Governor has learnt with pleasure that Baboo Brija Mohan Thakur and Rai Ifari Mohan Thakur, Bahadur, of Bhagulpore have made a donation of Rs. 1,000 in aid of the funds of the Behar Sanskrit Sanjivan Sabha, and desires officially to recognise the liberality and public spirit of the donors.

and desires officially to recognise the liberality and public spirit of the donors.

Onder.—Ordered that a copy of this Resolution be published in the Calcutta Gezette, and that a copy of it be forwarded to the Director of Public Instruction for information and communication to the donors.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secy. to the Govt. of Bengal.

APPOINTMENT OF DEPUTY MAGISTRATES AND DEPUTY COLLECTORS DURING THE YEAR 1899,

RESOLUTION.

APPOINTMENT DEPARTMENT.

Dated the 11th March 1890.

READ-

The Resolution, dated the 24th April 1889, regarding the recruitment of the Subordinate Executive Service.

Read-

The Notification, dated the 1st June 1889, publishing the rules for the examination held in February 1890.

The results of the Subordinate Executive Service examination held in February 1890 having been received, the Lieutenant-Governor directs that, in accordance with the orders contained in paragraph 14 of the Resolution and paragraph 6 of the Notification read in the preamble, the following gentlemen be declared to be eligible for appointment as Deputy Magistrates and Deputy Collectors during the year 1890:—

1. Baboo Ram Nath Chatterjee, M.A.

2. Moulvie Mahomed Abbas Ali, M.A.

3. Baboo Bisseswar Bhattacharjee, B.A.

4. ,, Benode Behary Sircar, late Special Deputy Collector.

5. Gobind Chunder Das, M.A.

6. Moulvie Sheik Abdulla, Special Deputy Collector.

7. Baboo Promotha Nath Dutt, B.A.

8. Moulvie Syed Ali Hossein, B.A.

9. Baboo Brojo Durlab Hazra, B.A.

10. , Nobin Chunder Ker, B.A.

11. ,, Prosonno Kumar Das Gupta, B.A.

12. ,, Jogendro Nath Sen, Special Deputy Collector.

Of the twelve gentlemen appearing in the above list, six are those who obtained the first six places in the competitive examination, three have been nominated from among those registered candidates who have obtained not less than one-third marks in the examination, and three are Special Deputy Collectors who have been selected for promotion. Those among the above 12 selected candidates who are not already in Government service will be posted to the head-quarters of various districts as probationers on a subsistence allowance of Rs. 50 per mensem, and will be employed on general work of such a kind as may be altotted to them by the District Magistrate. They will be appointed to fill vacancies in the Subordinate Executive Service, as they occur, according to the position assigned to them in the above list.

The following gentlemen, who are on the list of registered candidates and who have obtained upwards of one-third marks in the examination, are declared eligible for appointment to the post of Deputy Magistrate and Deputy Collector, should any vacancies occur during the year after the appointment of the twelve gentlemen above mentioned:—

Baboo Bunku Behari Singh, M.A., B.L., Rakhal Chunder Banerjee, B.A.

ORDER.—Ordered that the above Resolution be published in the Calcutta

By order of the Lieutenant-Governor of Bengal,

JOHN EDGAR,

Chief Secy. to the Govt. of Bengal.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Benyal, as reported to Government, during the week ending the 8th March 1890.

N	0.	District and		of		Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BEN	CA	. '40					
D STA	U.A.	Wostern 1	Distric	te.			
í	1	Burdwan Ranigunge	March	8,	'90	Wil 0:03	Weather—cool for the time of year. Pressed. Prospects favourable. Prices of common rice:
1							Burdwan 17½)
ı							Ranigunge 154 per ruper 19
-1							annual angle
	2	Bankoora	**	8,	'90	0.47	Weather—a little cooler. Rubbi harvest and pressing of sugarcane proceeding. Rainfall of the week too small to help ploughing for the next rice. Common rice selling at 21 seems per rup e at Bankoora and 194 seems at Bishenpore.
Dira.	3	Birbhum Rampore H	Aut	8,	'90 	0:35 0:07	The nights are still cool. State and prospects of crops continue good: all the better for the slight rain. Sugarcane heng pressed. Price of rice in the southern half of the district ranges from 19 to 20 seers per rupes, and in the
BURDINAN	6	Midnapur	**	8,	'90	0.23	northern half from 18 to 19 seers. Weather—seasonable. Rubbi being harvested with good results. Prices of common rice:—
ST B							8ndder 18)
-	,						Tambuk 19
- 1							Ghatal 19
١	5	Hooghly	8.0	0,	'90	Nil	Weather-coasonable. State and prospects of crops good Prices of common rice:-
							Sra 12½)
							Serampere 14 per rupee.
		Howrab	**	8,	190	Nil	Weather-warm in the day, but cool at night. State and prospects of crops good.
, b		Central De	intoled	a			
6	6		March		190	Drizzling	Weather rather warm. Prespects of crops good. Ploughing going on in some
1						NII	parts. Price of common rice 18 to 16 seers per rupes.
DIVE	7	Nuddea Kooshtea	0.5	0,	90	0.12	Weather—cloudy. Prospects of crops on the ground favourable. Lineard, peas, maxuei, wheat, and barley being rusped; outturn may be 12 annua. Culti-
	8	Moherpar Khooina		8.	·60	0.07	wather - forgy in the morning and days warm. Condition of bore and
U.S.			-				crops good.
TOTAL COMME							
I K	ก	Jessore Magura	20	8,	'9 0	Nil 0:04	Weather—cloudy and het in the day, but cool in the night. Ploughing of rice lands going on. Rain wanted. Linseed and pulses being reaped. Prices of rice stationary.
	10	Moorshedabad Kandi		8,	190	0-15 0-25	Weather-clear and cool. Lands being prepared for aus. Boro being nown. Rubbi still being cut and gathered.
	11	Dinagepur	**	8,	'90	19151	Weather-ecosonable; getting bot. Land is being ploughed for bladei. Sugar-cane being present.
	12	Rajslethye Nattore	93	8,	190	N11 0:08	Weather ecasonable; growing warm. Rain wanted. Outturn of those cold- weather crops that are being harvested in good. Crops on the ground coming on nicely, and prospects satisfactory.
VW.	18	Rangpur	00	8,	'90	Nil	Weather-dry with hot westerly wind; cool nights. Ass is being sown in some places. Other standing crops doing well.
MAIG HARRING	14	Bogra Sherpur	6.0	8,	*90	0.08	Weather—seasonable. I and is being cultivated for ans, til, and jute, and in some low lands sowing has commonced. Standing crops (poss, gram, &c.) reported to be good. In some places sugarcane is being cut, while in others it is being transplanted. Common rice solling at 18 seers per rupee
Reza	15	Pubna	9- 0	8,	.80	0-23	Woather—seasonable. Mustard and tobacco expected to yield 12 annas. Gram and wheat being cut in the Scrajgunge subdivision, and the outturn expected to be 16 annas.
	16	Darjeeling	10	8,	190	NII	We ather—cold and bright. Crops doing well, and prospects generally good.
	17	Julpigoree	83	8,	*90	Nii	Weather—fair with dry west wind. General prospects of standing crops and. Prices stationary.
							31
							n o-unit

	N	District an		Rainfal at Suddi Station inches.	Character of the weather and state and prospects
	REN	GAI concluded.		4	
		Eastern 1	Distriots.		The second secon
		18 Dacca	March 8, '9	Nil	Weather—days getting bot, but nights are cool. Winter crops doing well. In and paddy being sown. Mustard and sugarcane being out. No special change in the prices of food-grains. Common rice 14 to 16 scens perspec.
	Dagea Divy.	19 Furroedpur	,, 8, '9	Nil	Weather—days hat, but nights cool; cloudy at intervals. Prospects of crops of the ground fair. Hain wanted for cheens and know and for jute and assessings. Linsend, mustard, and tobacco being harvested with an outturn of more than eight annas. Common rice is selling at—
	1	Backergange	., 8, '90	Nil	Sudder 16 0 Per supec 16 13 Per supec 16 0
		11 Mymensingh	, 8, '90		Weather—seasonable. Prospects of rabbi crops fair. Common rice salling at 13 acets per rupes. Weather—seasonable. Prospects of crops good. Course rice salling at 14 acets
			,, 0, 0.	2441	per rupeo.
2		2 Chittagong	,, 8, '90	0.00	Weather—seasonable; still cool at night. Rain urgently wanted for winter crops. Common rice selling at 15 seers 12 chittacks per rupes.
CHITTAGORD Dive	2	Noakholly	8, '90	Nü	Weather-unsettled. Harvesting of rubbi crops continues. Preparation of soil for any going on. Rain wanted.
77.70	2	Tippersh	,, 8, ² 9(i	Nil	Weather-cool at night, warm in the day. Chillies and tobacco thriving. Rain
22	2	Chittagong Hill Tracts.	7, 90	0.88	Weather—slightly cold in the morning. Sun becoming hot and unbearable gradually. A copious shower of rain with hell-atones on the 28th altimo. Jum cutting continues. Sugarcane being planted. Tobacco and chillies doing well. Rwin on the 28th February has impressed a milition of standing crops to some extent. Middle class rice selling at 13 seers per rupe; and
В	EHAI	Hill Tipperal i	March 8, '9c	0 31	inferior and lower class rice at 16 seems per rupes. Weather—getting warm. Sugarcane and tobacce being gathered. Jame being out in the hills.
	26	Patne	8, 180	Nil	Weather—generally cloudy with strong wind. Harvesting of rubbi in progress Collection of opium continues. Prospects favourable. Mango crop damaged by cloudy weather and light rain during the last week. Prices of food-
	27	Gya	8, '91	0.20	grains almost stationary. Weather—cloudy. Extraction of opium going on. Rubbi crops being has.
3.	28	Buxar Spineram Phabuah	., 8, '80	0:05 0:21 0:85 0:40	Weather—warm and cloudy with some showers. Opinio and mange three damaged by showers. Wheat and barley ready for cutting. Prices stationary.
BATKA DIT	29	Durbhunga	8, '90	•	Weather—cloudy: a strong west wind with elight rain on the night of the bill- Horvesting of pers. Khesarv, and liuseed in progress. Mango blow-map partially injured by rain. Opium still being extracted. Indigo sowing in progress. Landa being prepared for sowing many and paddy. Common
al-	Ber	Moznflerpus Hajipur Sitamarhi	,, 6, 90	(+1) (+7 0-4	rice selling at 191 seems per rupes at Sudder. Weather—cool. Rolu on the 5th instant general; still cloudy at end of week. Cutting of rabbi crops commonced in places; \$2 to 16 annas outturn expected Indigo sowings nearly completed. In Situmarhi indigo had to be reawn in some places after the rain, but in the south the rain does not
	31	Sarum	,, B, '9(0.11	appear to have damaged the first sowings. Weather—closely. Prospects of rubbs excellent. Weather has been unfavour-
	32	Спирагия	a, 8, °90	0.18	while for puppy; its prespects, however, continue to be good. Weather—warm with west wind, but nights still cool. Resping of rebbi and extract on of opium commenced. Mange blessoms alightly damaged by thunder and lightning which accompanied the showers of rain on the bth.
	33	Monghyr Beguerni	8, '90	NH 0.5	Weather—generally cloudy. A few drops of rain fell at Sudder on the 4th Harvesting of peas, musterd, and linesed going on. Wheat and baries
	34	Jamui Bhagulpur	. 9, '90	0.10	ripening. Prices of food-grains almost stationary. Weather-cloudy; a few drops of rain fell on the night of the 4th instant
é		4	,, ,,		Nights still cool, but it is rather hot during the day. Harvesting of lineral coats, and peas continues. Wheat also is being cut with prospect of an
Du	35	Purneah	., 8, '90	0-05	average outturn. Weather—dry with westerly wind. Lands being ploughed for bhadoi cultiva-
POR		79	,, 0, 40	0.00	tion. Wheat, gram, and other standing crops doing well. Common res- selling at 20 seers per rupes in Sudder station and 21 seers at Arrayah
BRAGGIFORE DIES.	86	Maldah Shibgange	b, 'Do	0.16	Weather—warm and fine. High west wind and occasional clouds. Rubbi cross ripening. Boro transplantation continues. Rain during the week has done nome injury to mange blossoms. Common rice selling at an average of 12
1	57	Southal Perghe.	. 8, '90	0-16 N	light run with thunder on 4th and 5th instant. Rain not sufficient to de
		Deoghar	0 +	6-37	much good. It will hely sugarcene, mango, and mohica. Chicken range gives 6 to 8 annae in Godda. Prospects on the whole fatter
-		Suntara		0.80	
	i	Pakour	164	0.16	

1	No.	District and return		đ		Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
OR	ABBI.					der	
100	38	Cuttack	March	8,	'90	Nil	Weather scannable. Dalua rice and tobacco doing well. Prospects of crops continue good.
ORIGEA DAVE.	39	Poorec	**	7,	190	Nii	Weather hot and cloudy. Threshing of sarad rice still continues, lands being ploughed. Dalus and moons doing well. Prices of rice stationary.
	40	Balgoore	9,	8,	'90	Nil	Wonther—seasonable. Rubbi, ou arcase, and mustard being improsted. A full of rain would be beneficial.
H		NAUPURI.	r Agen	ov.			
	, 41 	Hazaribagi	March		190	0.80	Weather—unsettled, cloudy and coot. Rubbi being harvested with good results. Sugarcane being transplanted. Pappy prospects continue favourable.
CHOTA NASPORE DIVE	1 42	Lohardugga	**	6,	190	1-26	Weather—cloudy with rain and wind. Prespects of rubbi crops good in the head-quarters subdivision. Mango and maken blossoms much demaged by storm and lightning. Bubbi harvesting not yet finished in the Palamov subdivision.
CHOTA N	43	Singbhoom	0.3	ħ,	'9 0	010	Weather-cloudy. Prospects of crops continue good Prices stationary.
	44	Manbhoom Govindnore		8	90	0.88	Weather-hot and cloudy. Slight rain that fell during the week has done sann- good to the plantation of sugarcane. Coarse rice selling at 20 to 24 ages

Published for general information.

CALCUITA; REVENUE DEPT., The 11th March 1890. P. NOLAN, Secy. to the Goot. of Bengal.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the

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10	Moorebedabad	16	0	16	0	13	5	.]						13	0	115	8	13	S	17	0	10	0	17	0					
11	Dinagepore	19	4	17	0	12	0	1		20	0	Н	0	15	0	15	8	15	8	19	0	19	y	19	3				-0	
12	Rajabahye	16	8	16	8	13	8	26	4	92	8	(2)	4	18	8	16	U	14	4	15	0	16	2	16	8					B a
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6	Darjeeling	10	0	10	0	10	0	9	0	9	0	1	0	б	0	5	0	6	0	12	U	112	0	18	D.			+01		
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9	Furreedpore	12	0	12	0	16	0	14	0	14	0	21	0	10	0	10	0	y	0	-4	0	14	0	15	0					
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A la subdivisions retail prices of salt 10 score per rupes.

At Hampere Hant retail prices of salt 10 score per rupes.

In subdivisions retail prices of salt per rupes are: —Contai 9 score, Tumlook 8 score, and Chattal 10 score.

In subdivisions retail prices of salt per rupes are: —Strampere 10 score and Johannhad 10 score.

It is subdivisions retail prices of salt per rupes are: —Bacaset 9 score, Hamilton 9 score, Diamond Harbous (at Magrahat 10 score).

It is subdivisions retail prices of salt per rupes are: —Hamilton 10 score.

In subdivisions retail prices of salt per rupes are: —Koushtes 10 score, Meharpore 10 score Choondangs 9 score, and Chancelet 9 score 2 chittacks.

At Installations tainly prices of salt per rupes are: —Koushtes 10 score, Meharpore 10 score, and Bongong 10 score in a subdivisions retail prices of salt per rupes are: —Jhonida 9 score, Magura 93 score, Narail 93 score, and Bongong 10 score in subdivisions retail prices of salt per rupes are: —Lallagh 104 score, Jungapore 10 score, and Kaudi 104 keers.

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Head-quarter Station Bazars of the Districts of Bengal on the 28th February 1890.

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in Thakurgaon subdivision retail priose of salt per rupeo are:—Nuttore il scers and Nowgong 8 scers 11 chittacks.
In subdivisions retail priose of salt per rupeo are:—Nuttore il scers and Nowgong 8 scers 11 chittacks.
In subdivisions retail priose of salt per rupeo are:—Kurigram 8 scers, Nilphamari V scers, and Galbanda 8 scers.
At Singuri wholessic priose of salt Its. 4-4 per maund.
At Fallacutta in the Alipero subdivision retail prios of salt 8 scers per rupeo.
At Fallacutta in the Alipero subdivision retail priose of salt per rupeo are:—Mautokyungo 8 scers, Moonshoogungo 8; scers, and Naraingungo 10 scers
In subdivisions retail prioce of salt per rupeo are:—Patuakhali 9 scers, Peroscopero 9 scers, and Bhola 8 scers.
In subdivisions retail prioce of salt per rupeo fare:—Kishoregunge 8 scers, Taugail 10 scers, Netrokona 8 scers, and Shorepore 8 scers.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the Head-quarter

	representative the second			p.s. 20° 0						-303													, d	UA	NT	TI	ES 1	PEI	R RUF	EE IN
	1				WILE	AT,				E	Bani	HY.			Į.	tion	, 31	WT :	BOR	T.		Ri	OR,	001	MMG	M.	30	Son	R OR E	motum, ulgare.)
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30	Monufferpore		15	0	14	0	12	0	20	0	20	0	-		9	0	9	0	p	0	17	0	117	0	12	8			-61	
3]	Sarun	407	15	0	15	8	15	0					21	12	9	4	9	0	8	12	16	13	17	0	14	10	1.61	. !	***	***
32	Chumparun	. 74	14	0	12	0	13	0	28	0	24	0	16	0	8	0	8	0	7	0	18	0	18	0	13	0			. 4.1	***
38	Monghyr	**-	18	6	17	14	15	12	18			0		1	15	0	d.	3	13	2		01		7	16	8		•	***	
34	Bhagulpore		16		16	6	15	2	20	9	20	8	17	1	15	Ne 2	15	2)		-	17	11	18	- 1	15	2	***		age	.,,
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36	Maldah .		18	0	18	0	18	0	**						14	0	11	0	10	0	17	0	ıâ	0	17	0	***	ut.	101	20-5
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38	Cuttack -		13	2	13	2	18	2		1			P-(10	8	10	8	11	13	21	0	21	0	17	2			161	00.0
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h At Cox's Baxar rotall prices of salt 8 seems per rupec.

The At Cox's Baxar rotall prices of salt 8 seems per rupec.

The At Cox's Baxar rotall prices of salt 8 seems per rupec.

In subdivinuous rotall prices of salt per rupec are: —Buxar 10; seems and Madhubani 10 seems, and Bhabuah 9 seems.

The Subdivinuous rotall prices of salt 10; seems per rupec.

At Hailpers rotall price of salt 9; seems per rupec.

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Station Basars of the Districts of Bengal on the 28th February 1890-(concluded).

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In subdivisions rotall prices of salt 2 seers are: Begusera 22 seers and Jamui 2 seers. At Kishengunge result price of salt 2 seers per rupes. In Khourdah subdivision rotall price of salt 11 seers per rupes. At Blantese rotall price of salt 2 seers per rupes. At Palatness rotall price of salt 8 43 seers per rupes. At Govindpore again price of salt 8 seers per rupes.

Published for general information.

P. NOLAN, Scoy. to the Goot. of Bengal.

PRICES-OURRENT (voholesale) of Food-grains, Firewood, and Sai

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						M.	11 W	AT	6							Ban	LET	de .					E	TIOE	, 33	5T A	ONT	. 4	8	100			R	GE, (KOG	EMON	lo	
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CALCUTTA,
The 11th March, 1890.

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Wert preceding return Worresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
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n the undermentioned Marts of Bengal on the 28th February 1890.

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	₽,	۸.	t. 4	8	P.	A	R.	P.	Δ.	R.	P.	4.	R.	P.	▲.	R.			R.	P.	. 4.	B.	P	۵.	84.	P.	۸.	R.	P.	A - 1	R. /	P	. 4.	. 18	р.	. A.	B	y.	. A.	R.	₽.	Δ.	rt.	P.	L A.
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Patna.	8	2	1 15	1	6	13	8	0	14	3	0	5	0	0	-5	0	0	8	0	0	10	1	6	13	1	0	9	1	9	1	1 1	6	10) 1	G	9	1	0	0	2	6	9	1	0	8
Belasore.	0	1			0	14		0	14	3	6	4	0	6	4	0	6	4	0		0.00			***			43	4		0.0			200			101		0	14	2	0	12	2	0	10
Poores,	0	6	3 (3	0	5	3	0	6	3		000			***			049			004			100			100	4		м	**		001			467			40-1			s dio		-	-
Cuttack.	0	3	3 ;	8	0	18	3	0	12	8	0	8	Q	0	8	0	0		0	0	0	2	0	12	2	0	12	2 1		10	9-0		-			***		0	11	1	0	12	2	. 6	12

Published for general information.

P. NOLAN, Secy. to the Goet. of Bengal.

STATEMENT SHOWING THE STOCKS OF RICE IN AND AROUND CALCUTTA.

Partie of Sante.	Int week of War 1840.	of April 1839.	int week	of June 1889.	lst week of July 1899.	of August 1869.	ist week of Sept. 1969	2nd week of Oet, 1899.	int work of Nov. 1699.	int week of Dec. 1889.	int week of Jan. 1890.	of Feb. 1690.	of Mar. 1869.
	Mide	Mds	Mds.	Mds.	Man	Mds	Mda	Mds.	Mds.	Mas.	Mds.	Mds.	Mds.
Balachatta	12.77,000	18,47,000	15,42,000	7.47.54	8,73,004	7.32.700	0.62,000	6,06,000	4.54,000	2,96,500	\$,00,000	5,45,000	8,31,160
Ooltadanm	60.600	57,1up	32.200	Sh. (h)00	94,500	73,700	75,6110	71,000	67,400	55, 6114	63,400	82,990	1,02,500
Chitmore, Solabarre, Chumer- tooly, Matkhola, and Pulpy Ghat.	7,08,490	7.66,040	7.51,300	diagraph ()	0.45.676	. 6.97,700	0.70 500	6.74,100	6,33,300	5,46,000	6.00,490	6,98,900	0.83,800
Pathactachatta, Posta, and Jorabagua.	4.08%	Deg.	3,000	2,590	# 0em	3.004	0.000	B.n04	8,000	2,000	4.000	6,000	6.000
Tallygange, Chatlah Kidderpore and Mountaine.	1,57,400	1.48,140	1,69,000	3,19,7u0	1,03,7e0	1,10,700	73,500	W9299	62,900	69,100	62,750	98,700	1,11,400
Il Minor Banars (astimated)	2,66,600	9,40,000	1,46,800	£,40,000	1,40,00n	3.40,800	8,44,000	\$.60,000	2,40,900	2,40,000	8,60,000	3,40,600	2,60,000
Other rotall shops, 2,129 in number (selimated).	8.60,000	3, 80, 900	8,80,004	2,60,000	3,56,900	1,64,00/	1,50,000	2,88,000	9,00,60%	8,54,060	9,89,00:	1,50,000	2,10,000
Beidynbatty, Rounbunge, Minddewson, and Chander- macors.	23,718	19,792	20,013	19,933	986'61	18,117	14,265	14,392	32,630	14,060	20 dis	19,694	20.
Total	27, 13, 965	191,77,72	27,80,486	21,64,123	22, 00,566	21,30,917	18,96,405	16,85,408	17,3:,310	18,13,090	15,09,973	18,45,506	22,04,00
On Ballway promises on bath sides of the river. On boats un. Souled Astron.	6.353 (on 5th Mar. 1839.) (left to 3rd Mar. 1839.) (left to 3rd Mar. 1839.)	April 1880.) April 1880.) 23.40 (181 to 3rd April 1890.) 86,713 (181 to xrd April 1890.)	12,486 (on 4th May 1880.) (1817,932 (1810 374 May 1881.) 8,873 (188 to 374 May 1889.)	(en 3.4) June 1850, 16, 106 (list to 3rd June 1899,) 16, 297 (188 to 3rd June 1899,)	for 57,530 July 1899.) 5,010 (1881 to 201 July 1899.) (1881 to 37,109 (1881 to 374 July 1889.)	(on 3470 Aug. 1809.) 1,32,538 (184 to 344 Aug. 1899.) 29,548 (184 to 344 Aug. 1899.)	9,006 (on 374 Sept. 1852.) (1st to 374 Sept. 1809.) (1st to 374 Sept. 1809.)	(ces Bril Oct. 1889.) 17.333 (sth to 7th Oct. 1899.) 66.922 (seh to 7th Oct. 1899.)	(68 37d Nov. 1652.) 21.334 (1810 37d Nov. 1659.) (181 037d For. 1869.)	(orn 8rd Dec. 1690.) St. 850 (188 to 8rd Dec. 1699.) (188 to 8rd (188 to 8rd Dec. 1699.)	20,000 Jean 1900.) (Snd to 1901.) (Snd to 48. Jean, 1990.) (Snd to 4th Jean, 1990.)	26,596 (on 3rd Pob. 1250,596 (laf kg,796 (laf kg,796 Pob. 1390,1 kg,42,044 (lat to 3rd Pob. 1390,1)	(on 3rd Mar. 1803,) (in to 3rd Mar. 1800.) 1,34,647 (ins to 3rd Mar. 1800.)
Grand total of Stocks	25,54,833	814.59,82	100,007	35.22,066	E. C. C.	22,94,673	19,44 255	18,77,914	17,61,269	15,00,54	17,80.438	10,12,18	25,48,502
Probable steek available for statestation by sen.	172 fakhs	1 to balthus	174 Isthi	114 lachs	32j lakha	124 Inklis	9 takhs	क्ष्यंचा स्थ	71 takhs	s labbs	7. lakke	स्त्रीम् सा	अस्य का
STATISTICAL DEPARTMENT, The Lord March, 1890.	FMENT,						,				Secu. to	P. Notan,	f, Bengal.

STATISTICAL DEPARTMENT, The 10th March, 1890.

Abstract of the results of Meteorological Observations taken at the Alipore
Observatory in the month of February 1890.

	3							
						Inches.	Date.	Hour.
T	he mean pressure	of the month		* * *	100	29.948		
	he average pressur			re' registers		29.945		
	he highest pressur			400		30.170	2nd	10
	he lowest pressure					29 676	16th	16
	he range of pressu					0.494	13	
Ŋ,	he total number of	hours of brigh	nt sunshine d	luring the n	aonth	Hours. 248-2		6
T	he maximum possi	ible number of	hours of sur	shine	# 0 0	318.0		
T	be mean temperati	are of the mont	b			70.9		
	he average temper			years' regi	isters	73.0		
	he highest tempera				***	90.8	26th.	
	he lowest temperat			4 4 4		507	12th.	
	he range of temper				***	40.1		
	he mean daily rang				***	24.0		
T	be greatest range of	of temperature	in one day			30.4	12th.	
						Per cent.		
	ne mean humidity				***	67		
T	ne average humidit	y of February	from 24 yes	ara' regiater	·	67		
						Inches.		
T	ie mean vapour te	nsion of the me	onth		***	0.493		
Th	e average vapour	tension of Feb	ruary from 9	years' regi	isters	0.538		
Th	e mean cloud pro	portion of the	nonth			0.74		
Th	e average cloud	proportion o	f February	from 13 y	ears'			
m	registers	41 42		u 0 0	* * *	1.75 Inches.		
	ne total rainfall of		aldania calif		***	Nil		
A 8	total rainfall in					DE:1		
da!	gauge (mouth of					Nil		
	e greatest fall in		to years re	Rieccia		0·87 Nil		
	in Ricarcas rais in	AT BOULS		• • •	* * *	Days.		
Th	e number of rainy	days in the m	onth	110	***	Nil		
	e average number			from 24 y				
	registers	***				3		
						9		
Th	e mean maximum	equilibrium te	mperature o	f solar radi	ation	-		
	during the mon		***	***	***	137.3		
Th	e mean difference		temperature	86		53.7		
	e greatest sun ten		***		0.00	143.4	21st.	
Th	e greatest excess o	of sun over air	temperature	***	498	56.7	8th.	
	e mean temperatu				neter			
	on woollen cloti		100	***		51.8		
Th	e mean depression							
	below the minir	num air temper	rature at 4	feet above	the			
	ground					8.1		
Th	e greatest depress			on thermor	neter			
	below the minin	num air tempe	rature			10.8	12th.	
						Miles.		
	e mean movement				* 4.0	69.8		
	e greatest movem			000		183.0	17th.	
	e greatest movem					17.0	26th 11	to noon.
Th	e number of hour			_				
	N. 128, N.E.			_		N.W. 75	, Calm 5	7.

The results of observations at the Alipore Observatory are not rigorously comparable with the registers of past years (at the Park Street Observatory). The barometer is about 8 feet higher at Alipore, and, other things being equal, reads therefore '008 lower. The diurnal range of temperature is also greater at Alipore, and the mean temperature apparently about 2.1° lower; and finally, the thermometer which furnished the record of temperature at the Surveyor-General's Office during 20 years and upwards is found to read 0.6 higher than the Kew standard thermometer, which is the standard of reference at the present Observatory.

C. LITTLE,

METEOROLOGICAL OFFICE, INDIA; Celeutta, the 7th March 1890. For Meteorological Reporter to the Goot, of India.

Meteorological Report of the Province of

			-					ST	ATIO	N OH	SERVA	TIONS.					
				Arn 1	Pamer	ta.				THEFE	BATUR	n.		Homi	DITT.	OL	ovb.
	DISTRICT.	Representative	neter read-	gelerread-	n, 9 h.M., month,	reduced level.	on from	t of	of month.	tega	dealy mine	daily tem- ure.	ion from	8 A.M	ion from	eloud	ion from
		8"	Highest SA. harmorer ing of men	lowest.	Mean. for m	Mests to sea-	December 1	Huchert	Lowest	frand muni	Mean di finenti fure.	Meen daily perature.	Variation normal	Mean. 8 A	Variation normal	Mean amount,	Variation normal 8 4.M.
-																	2
	Poores	Puntpa	80.130	\$51.2(4) \$51.2(4)	20:004	30°007	4 10115	9012	gerni gerni	83.7 8210	f(1)	78 2 72 h	-0.2	88 72	= .	1.0	=
I		False Point	301140	XB 752	29 191	50 ol 4	-1000	50.5	\$31D	93.1	63.3	781	+0.4 -0.8	91	-1 -2	29	+10
	Cuttack	Cuttack	301000	29:713	201440	1501624 (531620	-1004	98 4 94'4	48:4	87 0	60 5	73.7	+11	78		0'1	
1	South-West Midnapore	Sangor Island	30 130	29 770		20.650	010	8812	68.3	8114	00.1	73'3	+01	Pi	-1	1.2	-11
	and South 24-Pergun-	- Designs granter //															
H	Midnapore	Midnapore	30'009	\$91627	29-867	30,072	~- 10:00	96.2	5112	8817	60.0	7616	+215	61	-	0.8	
	14-Pergunnaha, Howrah,	Calcutts	501140	291756	20°000	20.019	018	D3.0	50 8	83 9	59 5	71 4	4-0*8	83	1	0.0	-3'
	and itoughly.	Bordwas	301044	291657	491900	801014	020	93.8	44'3	66'4	57 1	71.8	+10	6:	-10	0.8	1
	Bankoora	Bankocra	20-821	291447	20 650	30.6-4	- '030	941	50 3	8016	1.89	7213	+ 4 7	5.4	-	0.0	****
	West Surdwan and	Кападинде	291824	291423	189-68	30.033	010	94'5	80 ±	84.8	87 6	72.2	+ 1'0	87	-	0.2	-
	Berrinoon.	Burhampore	2010/09	29 FBD	20.041	301012	-*035	91 1	47.6	83 P	5512	60.0	+0*6	76	+1	0.0	-1
	Moorebedahad	Krishnagoro	30.113	19 602	291970	80.044	+ '010	9217	4419	85 4	55'0	69.3	+018	69	-	0.2	
	Nudden Jessore and Khoolna	Jessore	301134	90.451	99-977	30'015	018	DP8	40.0	53.7	68°9	7116	+ 1/4	89	+7	6.1	2
1	'hittagoug '	Chittagong	301033	29:771	:07953	30'017	-1001	591	61'2	93.0	5614	71'2	+1%	63	-2	1.9	-0
The second secon	(Buttagood Hill Tracts	Demngri						01	serva	tions n	at recei	vod.					1
۱	Backergunge in mi	Barriani	35118	20.754	:91096	20,108	903	68/3	501	83.1	8748	7017	+13	Kh.	-	0.9	-
	Nonkholly	Noakholly	30,000	10:70H	297(85)	30:025	-	88 0	47.0	62"4	57.1	OU 8	-	[613	_	0.0	-
Ì	Furreedpore	Furreedpore	30'100	19736	29 974	30 of6	010	56 U	40.2	79 8	67.2	5 80	+0'5	B-6		0.0	-
1	bucca	Dacca	30/103	29:754	20 074	30 007	033	0.016	452	83.8	67'0	70.0	+ 0'8	H1	+1	1.1	-01
	Tipperali 11	Con-millah	30'154	191785	SU 9:3	30.050	001	H814	48 1	81.1	50 0	63'6	+1'8	85	_	0.8	-
L	Mymensusyh	Mymensugh	20.024	#9*737 #9*683	20.010	27.693	-'018	DI.P	(7 0	53.4	5319	09.0	+19		-	0.0	-
1	Bogta 201 01	Serajgunge	30 (91	29 720	20'847	10 905	-125	ho.8	16'9	8814	531	9972	+1'8	5(4)	_	0-2	
	Pubna	Rampore Benu-	30°£74	297679	an 833	a0100d	- "004	5973	12,0	B213	547	1781'0	+24	70	-	0'2	_
	Rajahahye	lenh.			-Paramet		1		10.7	Lunar	50-0	1 07.9					
	Maidah "	Mahiah	50'080	10'755	201037	301022	-	(F2*G	4817	8313	50 0	67.3	. 0.44	64	-	010	-
	Dinamphes	Dinagepore	30'617	19'615	191870 1 90196-M	201999	-'039 -'014	59 0			31'd	08 0	+ 1'8			0.0	-
	Rungpore	Lungpore .	361.30	1		30'015		1	45'5	1	52.3	1	7.33	86		0.0	_
1	Julpigores and Cool Beunt.	Julpipores	197855	A 810	•	1	1					,				1	
	Darjesling Hell Tracts	Darjesling	20116	22 70%	227903	-	-	55'3	6318		38 1	4318	+ 5'7		+12	3.0	0
	Purpeah and North	Purnesk	.01(35	20 cl.	EU 873	30*007	'010	877	45.0	60.7	63'4	65.1	+0':	75	+8	08	-0
	Woeufferpote	Montferpore .			1			OF	ATTOR	tions di	noonius	mod.					
	Direction of the control of the cont	Durbhunga	29 101	2916 4	29 H30	80.017	'017	5710	Ď	87.1	7	*	0	69	-8	0.6	-1
	Симправий и и	Motiburi	201919	ZN.241	20*7.0	S0°014	0	E'6d	41°D	70.0	4012	54.4	- 1.0	70	-	1-8	-
1	SARUE TO THE THE	Chupra .	291989	291697	i itralo	30'015	- '013	85:3	40.1	83 6	95.9	67'1	+57		-	0.2	-
	Snahabed 5	Debres	29:915	291441 201441	19°67.6 19 770	000 a	+ '010	91'8 58 9	47 5	8410	83.4	6910	+678	61	=	1.0	_
		Arrah	27.160	29'-01	39"bil	30'022	4 '003	IND D	42'0	65°8	1	200	+ 2'5		- Hera 9	1:0	-1
	tiya	leys	89:177		291641	.0.010	-1005 -1001	59'4	6516	83 7	6317	67 6	+1.8		+571 ?	07	1.
1	Patna	Hankspore	291916		29 852	20.008	'021	03.2	43 0	18 3	627	08.0	+8.3		-10	0.9	_
	Nouth Bhazulpore and Murgings.	Bhagulpore	23/15/63	29'0,5	THE DAY	50 000	- 013			1	1	ł .	7.02				
1	Sonthal Pergunnals	Naya Doomka	20 Gal	291231	19 860	30.638	-	9210	44'0	64 2	53 6	0/10	-	87		0'1	-
	linearsbogh	ilasarivegh	28 975	27.767	27 '947	20 647		86 TU	60 9	91919	65.9	68 4	+3%	86	-10	0.0	-1
	Lohardurge	Kanchee	27 535	27'630	27.836	84 033	-'002	8712	4610	81.4	8018	65'4	+ 310	48	-	0'7	
l		Chyebana	39.391	19.000	191244	50.011	-	03.7	47 ā	87'1	67.9	78 8	-	62	-	0.4	-
	-	Mibragar	20 403	7P 373	29 723	20:077	+ 1007	H0*1	42'0	7519 8110	66'3 66'7	66.0	+3'1	98 80	+3	616	-1'4
1	mood.	District .	90.039 90.030	29 745	20'681	90 089 90,000	1032	87 b	67.7	63.7	BU &	79 9	+87	86	+1	33	-07

gal for the month of February 1890.

			DIN	TRICT OBS	BEVATION	ñ.				-		
				RATHY	ALL.							
		Of mouth.		6		Binco	15th May			Representative	DISTRICT.	
	Normal mean.	Variation from mean.	Number of rainy days.	Normal mesa num- berofrainy days,	Wenn of dis- trict.	Normal mean.	Variation.	Nean number of parties.	Normal mean name ber of range	etations,		
										Floorer		1
	0188	-0.92	0.0	1'8	74'96	86'46	+18'49	96 B	851	Gopalpore	Pagree	7
0	0:61	-0.79	014	1.6	687-61	82.79	+13'62	93*8	6015	Cuttack	Cuttack	
	1.00	-0.82	0.3	2.8	50:07	B 6°37	-4130	83'6	29.5	Balasore	Balasore	101
0	1.28	-1:31	0'7	2.2	98.21	63*75	-6:11	100%	5810 .	Saugor leland	South-West Midna and South 24-Per	nore)
	1.00	-1.00	0.0	20	46 39	6E 57	- 0.18	80-1	76'2	Midnapore	Midnanore	
	1-27	-1.52	0.0	2.5	84'10	82:01	+1.18	921	N2 8	Calcutta	:4-Personnahe How and Hooghly.	rah,
	1.03	-1'03	0.0	5.3	43.80	47:74	-3'85	5412	78 1	Burdwan	Burdwan	}
	0 73	0'73	0.0	2.2	55-93	53 91	+ 210	8210	51'5	Bankoors	Baukoora	
	9:98 0:71	-0°79	0.0	5.0 7.2	52:4d	82'00	-0.14	#5 0 80 1	55°P	Ranigunge	nearniteom,	and
	1.04	-1.04	0.0	5.0	21.01	20.18	1.83	PATO	80-11	Krishnagore	Moorahedabad	
-	1.11	-1.11	0.0	2.9	86 73	56130	+0.42	י עיקט	87.1	Jessore	Jessornand Khooin	***
	0.73	-0.73	0.0	2.0	100:30	114.51	-16'16	11115	100.0	Chittagong	Chittagone	
ŀ	0.90	-0.45	0.2	2'5	65*61	82162	-1676B	0910	1107	Demagri	Chitiegous Hill Tra	
-	1.00	-1"15	0.0	2.1	75*41	75100	+ 0135	105 0	1979	Barrian1	Backergunge	- 11
	1165	- C'95	0.8	5.2	80 40	109 16	-17-97	114 0	110 4	(oakholly "	Nonkholly	994
	1.80	-1129	0.0	2.3	62.71	50'92	+5'30	b5-11	60.1	Furreedpore	Purroedpore	
	1.20	-1 xo	0.0	2-7	70 ly	60 B4	+15'50	107'0	B-100	Daces	Dacca	
-	1.05	-1 ed	0.0	26	86 GH	70 33	-13'71	DD 1	99.3	Commillah	Tipperah	114
	0.38	-0 /2	6.0	1.8	5H 7E	65.53	1 10.22	107:0	00.8	Mymonsingh	Mymensingh	}
4	0.78	-0.75	0.0	16	65-61	65'01	+7160	103 7	7918	Bogra	Hogen	
	1'05	-1'06	0.0	2-0	65:37	64-40	4 8 97	10318	83.3	Serajgunge .	Pubna	
1	0.20	-0.70	0.0	1.2	5-8135	51'55	-0.53	003	760	Rampore Beau-	Rajshahye	
ĸ,	0.30	-0.26	0.0	23	\$9:70	51'01	-1 '0"	74:0	65:0	Maldah	Maldah	\
	0 64	-0.4H	0.0	1.0	57149	27158	-0.23	83'5	70.8	Dinagepore	Dinagopore	100 1
	0 43	-0.43	0.0	1.4	85187	78'20	+11'61	87-7	77.0	Rungpore	Runspore	
	0.30	-0:39	0.0	1.6	117.75	111:01	+0.00	105'6	₽4 €	Julpigorce	Julpusoree and Co	l j
П	0.67	-0.6.		27	133 40	122.04	+ 11°41	127 6	110 4	Darjeeling -	Darjeeling Hill Trac	Is.
	0.20	-0.80	00	3.4	75 90	20.18	3 15 82	76°G	71.2	Purneau	Portoni and No bisiguiporo.	illac
	0.20	0'37	0.3	1'5	48183	43 93	4 4192	7114	\$9.4	Mozufferpore	Mozuderpore	
	6160	-0 40	0 0	1.2	52 11	45 11	4-6 00	07:0	ph.1	Durbhunga	Durbhunga	
,	0.38	-038	0.0	1 3	क्षत्र विशे	67 17	+ 10170	ପ୍ରତ ବ	33 3	Mothari		423
	0.45	-0.49	0.7	1'8	46,00	43°43	~5:30 ~0:30	6816	62 4 1	Chupra -	rarun	111
						00 000	-0.30			Verah)	711KU40KQ 109	
	24.0	-0'45	0.1	316	37-08	45.04	4'95	66 0	P. C. 9	Gyn	iya	
	0 61	-9140	0.9	13	43:80	41:73	+1'77	(3 d	62.0	Bankapore	dates	/
	0'67	-0'45	0.0	1.6	48:47 84:15	81 26	+ 8.80	70:0	67·7	Saya Hoomka	South Bluguipore Monguyr. Southal Pergunnalin	
	0.50	-0.95	0.0	1'5	43.03	81:03	-N:03	8318	82'7	Hazaribash _	ilaanibagh	2.
	0°72 0°06	-0'75	0.0	20	49'34	49 85	-8:51	63.1	88'3]	Ranchee	Louisidaga and	
	0'86	-0.84	60	\$15	35 36	47 80	on fit will	97'1	80.2 J		948	Caretta
	1111111	-0 86	0:0	2.3	48 76	82 42	-3.00	100'0	D4:5	Silesagar	singblioom	,
	Acres .	******	914949	******	630x01 60xx01	(44.44	444411	844	202 171	Dhubri Silotar	Assem	An

Table of Rainfall recorded at S

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Mohoprological	District.	Station.	1	2			ð		,		. 9	10	11	18	18	16	15	16	17	1
division.																				
OR1884	Pooree	Pooree Khurdah		***			141	**1	***	484	500	401	\$4.0 14.0	***	***	*4*	444	111	***	
		Bannur False Point	411	110	101		414		***	***	291	400	117		949	112		100	***	
		Gop Popli	47*	100	***			1 (**	4.0.0			001		***					ia-	Н
	Cuttack	Jaratsingpore lianki Cuttack	444						144		44.0	***	+1+ +41	***			***		***	
		Kemirapara	164	***					444	***		***	894	111	111	***	***	***	411	:
		Diarmaniis	201		***		***	,**	1	441	864	***		994	***	***	491	,,,	411	:
	Balasore	Chandbali Bhuddruck	***	***	481	***	1 1 1	***		***	400	10+	***	407	101	141	111	***	***	10
		Forah Halasore					424			***	100 100	7 E F		***	,,,	11.			***	
	Midnapore	Baripodah			1		***		444	***	004	***	140	905		141	144	odel .	***	
SENGAL.	Widthhora ""	Saugor Island Tumlook	***	***	***	***			> 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1		141	***	214		***	,,,	41'	111	17.0	
		Midnap re Chatal Kukwahalu	• • • •	***		***	***		u p-4	***	##1	***	***	***	0 0 1 0 0 1 0 0 0	***	***	4.01 4.51 1.64	2 1 2 24 4 5 7 7	10
		tiarbeta		***	***	411			***	***	***	107	.,.		***		001		401	4
	06-Pergunnah	Diamond Har- bour.	147	***	100		441	***			***	***	***	984		.,.			401	
		Alspore Jail Barrackpore	111		111	***	441			# 1 t	494	***	***	101			***	***	***	
		Barnset Barnset			100				117	107	41	***	***	1			144	***	***	
1	Howrah	Howrab	***			844 101	424			*47	***	***		***		***	***	***	***	1
		(Oolooberiah).										4,		9.1		,	***	004		
	Hooghly	Berampore Hooghly Johannbad	404	489	204	***		,	100		***	411	221	441	114				***	
	Bardwan	Cuina		***	101	***	1 1 1 1	101	***	100	004	440		***				EB4	***	
		Cutwa Rangegunge	8.00		141		000 4++	100	100	***	***		1d4 141		10.0	**	***		111	130
	Bankoora	Mankur	501	***			201	***	900	0.00	***			.,,	***	211	***	+ 0.0	***	
	Bantoora	Hishenpore		***	***	174	140	***	000			p4+		e00		400	441	177		140
Í		Khatra Indaa Kotalpore		244			111		101	***		111			101		***		***	**
		Anda Ganyajalghati			***	***			***	444			***		5 8 8 5 7 4	***	1 10.		***	***
		Raspore Bonamukhi	-11	10		247	447		***	***			101			***	001		412	
	Beerbhoom ,	Bh. Boory Hetampore Rampore Haut	121	***		741	***	207	***	***	181			***	***			***	411	415
		Holpur	*64			200	000	***		,		***		***	11	***	111		001	111
	Nuddes	Remarkat	***	100	100				484	***			***	***		***	***	***	10'	11
		Chocadanga	96 -		100	911	117	-49	***		441	111	100		101	***	***	111		
- 4	Eltooina	Rooshtes	***		***	410	111	204	4+2	***		***	000				***	***		
		Hagirint Khodina Astepar	***	141			100			***	1-1		101		100		800 854 863	100	4+4	
	F	Rampal	***	***		***	***	***		0.01	2.4		400	491		800	000	***	944	
× 203	Jessors	Jessore Theredah	* 0 0 * 0 1 E 0 0	***	***	100	***	***	244	***	***	***	111	***	10.	***	84+	1 630	***	110
A STATE OF		Magnorah Bongoog		***	107	***	000	***	***	***	***	***	***	***	***	***	000 +44	***	994	
	Meorobedabad	Berhampore	***	***	***	***			***	***	***	*17	** 1 P# *		110		***	100	947	
		Laimen Azimeunga Jungipora	***	000	***	***	219	***	***		***		111	001	144	***	000	419	810	
, , ,		Lakein	441	***	101	***		***	881	200		***	100	400		200	***	110	1	
1	_	Akkenganj		***	***			***			101	100		444	400	420	100	+60		
BAST BRESA L	Chittagong	Con's Basar Chitisgong Katabdig	111	1 pm	101	691	***	11.	***	164 000 504	100	100	***	200	004 017 000	000	000	000 001	600 611 611	
.13	Chittenna 201	Balsanya	9.00	110	***	000	0.00		***	004	410	104	048	***			***	4 84	244	
	Chittagong Hill: Tracts.	Rangumati	100		494 1	***	000	164	100	101	224	200	964	844	988	***	194	040 1949	***	

Bengal	in	February	1890.
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2	88	24	25	90	37	36	Number of rainy	Average number of	Total rainfall for the wonth,	Average rainfail for the mouth.	Heaviest rainfall during the month.	Total rainfall from let January (*12) up to 23th Peb, 1500.	Average cointail from ist January up to 28th rebrany.	Station.	District.	Motoorelegie al division.
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	242 244 244 244 245 249		# 4 A 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	4.	441	***	NII NII NII NII	1.7	Nil Nil Nil Nil	1110 0172 0149 0 AB	NII NII NII NII	0:09 Nil Nil 0:20 Nil	1 136 0 199 0 197 1 146	Pooree Khurdah, Banpur False Point. Gop. Pipli,	Pooree	ORISEA,
84 99 99 99 99 99 99 99 99 99 99 99 99 99	900 960 984	***	***	0'07	41 45 41 41 41 41	0.08	NII NII NII NII NII	0.0 2.7 2.0 1.2 1.7	No No No No No No No No No No No No No N	0.61 0.64 0.66 0.78 1.21 P	NII 0:07 NII NII NII NII	0°52 0°00 Nil 0°21 Nil Nil	0'96 0'86 0'86 1'17 1'74 F	Jagatsingpore, Bunki, Cuttack, Kendrapara, Jajpano, Dharmasia, Satipore,	Untinek	
**	030 144 069 PER	P00		0'3"		0.12	Nil Nil Nil	1'8 2'3 1'9 2'0 2 1 2 1	Nil 0780 Nil 0720 0715 Nil	1:02 1:32 0:84 1:27 1:02 0:74	Nil 0:30 Nil 0:20 0:15 Nil	0:40 0:30 Nil 0:20 0:15 Nil	1'60 1'71 1'09 2'00 1'74 1'60	Chandbali Bonddruck Sorah Ballasore, Jellasore, Bartpodah	Balasore,	
	(b)	***	••		1	p.11	Nil Nil Nil Nil Nil Nil Nil	1'8 2'3 1'0 2'1 2'0	000 001 Nd Nd Nd Nd Nd Nd	1°38 1°17 1°16 0°84 0°89	0.00 0.11 N:1 V:1 V:1	0°14 0°11 0°120 Nil 0°11 0°19 Nil	1'69 1'51 1'56 1'50 1'40	Contai Saugor Island Timlook. Midunpore. Ghatai. Kukrihaty. Garbeta.	Midnapore	Sours-West Bessel
	0.04	***	,				Nii	5.8	N 11	1.0%	Nil	01354	2'32	Diamond Har-	24-Pergamahs	
,	***				***		NA NA NA NA NA	2.1 2.4 2.4 2.1	NI NI NI NI NI NI NI	1'47 1 27 1 127 1 129 1 20	SH SH SH SH SH	0:05 1:07 0:33 1:08 1:10 1:10	1.18 1.72 1.04 1.88 1.46	bour. Canning Town Airpers Jan. Harrackpore. Dum-Dum. Harract. Buseerhat.		
	000	***					NII	2.0	NII NII	1'20	Nil	0.25 0.40	1 '85 1 '85	Howrah Monumeka	Howrah.	
.	***	***	 .44 49:	***			Nil Nil Nil	7.3 7.0	Nil Nil Nil	1:24 1:35 1:27	No.	0°36 0 61 0°46	1.83 1.83	(Oslooberich). Serampore Hooghly, Jehansbad.	Hooghly.	
- 1	***	***				1.7	Not Not Not Not Not Not Not Not Not Not	1°8 2°4 2°3 8°1	No.	1'08 0'77 1'10 1'10	Nil Nil Nil Nil Nil Nil	Nil 0.18 Nil 0.07 0.09	1'54 1'41 1'61 1'53	Cuina Burdwan. Cutwa, Rancesunge, Mankur,	Surdwan.	
	999 981 883 *** *** *** *** *** *** *** *** ***		### ### ### ### ### ### ### ###	100 100 100 100 100 100 100 100 100		400	NH RAH RAH RAH RAH RAH RAH RAH RAH RAH RA	1702	Nil Add Nil Ad	146 0.70 0.58 0.58 7 7	NO NO NO NO NO NO NO NO NO NO NO NO NO N	0.07 Nil 0.11 Nil Nil Nil Nil Nil Nil Nil Nil Nil Nil	1:45 1:05 0:91 1:02 7	Bankoora Biahunporo, Malaara, Kinstra, Ludas, Kotalporo, Anda, Gangajalghati, Kurporo, Sonomakhi,	Bankoura.	
	***	***	** ** ** ***	**			Nil Nil Nil Nil Nil	2'2 1'5 1'7	Na Na Na Na Na Na	0:103 0:107 0:86 2	No. 1	Nit Nit Nit 0'07 Nil	1'39 1'48 1'37 ?	Bh. Spory Hommpiee, Rampore Ham Ralpur Mararas.	Beerbhoom,	
***	114	10 mg mg mg mg mg mg mg mg mg mg mg mg mg	***	***	7.0 7.0 7.0 9.0 1.1	201 201 021 021	NII NII NII NII	1.0 1.0 1.8 2.5	No No No No No	0:93 1:02 1:1 1:u2 1:11	NII NII NII	0:30 Nil 0:05 0:14 0:15	1:39 1:44 1:42 1:38 1:49	Ranaghat Kedunghur Cheodonga, Meherpere, Kooshtea,	Nudden.	
n. }	104	101 007 007	*** *** *** ***	149	947 440 971 1	***	No.	2.3 2.3 5.4	NII NII NII NII	0198 1181 1198 1	NII NII NII NII	2:03 1:48 1:46 Nil 0:47	1'55 2'00 1'53 P	Satkhira Bacirint. Khimina. Nakipur. Rampal.	Khoolre	
50 50 101	***	001 207 000 000 000	8 9 4 9 6 0 1 7 7 9 4 8 4 8 9	**	0	***	Nil Nil Nil Nil	2°6 2°7 2°2 1°6	Nil Nil Nil Nil Nil	110 110 116 116	NII NII NII NII	2'84 1'50 0'18 0'45 1'63	1 64 1 30 1 44 1 30 1 43	Narati Jesure, Jheminh, Magorah, Bongong.	Jees re.	
	100	010 010 164 610 105	001 100 010 010 000 011	79- 100- 100- 100- 100- 100- 100- 100- 10	000 000 000 000 000	444 444 444 444 444	NII NII NII NII NII NII NII NII	1'6 2'1 1'4 1'1 1'8 -?	NO NO NO NO NO NO NO NO NO NO NO NO NO N	0185 0 85 0186 0126 0126 0127 0188	NII NII NII NII NII NII NII	NII 0-12 NII NII NII 0-04 0-25 0-10	1:97 1:30 1:30 1:32 1:16 1:36	Kandi Budisupore, Lalbago, Astronage, Jusquare, Lalgola, Janguare, Aktronage, Patarburi,	Mooraledaha-t	
	***	000 000 000	994 984 900 849		•••	000 000 000	Nil Nil Nil Nil	1:a 8:0 2	Nii Nii Nii Nii	0:40 3:35 P	NII NII NII NII	Atl Oran Nil Dit	1.84 1.70 P	Oox's Basar Chiticomy, Kutichta, Satia	Ohissageone	EAST BENGAL.
	***	***	160	***		0.88	Nil	3°4 3°3	Nil Nil	0.91	0%8 NII	0 to 0	170	Hangamati	Chitiagone Bill tracts.	

Table of Rainfall recorded at Station

division,	District.	Mation.	1	I	3	4	5	97	7	8	9	8 (1)	11	12	15	14	16	16	17	18	
RENGAL	Backergunge	Patimbhally		· · · · ·	1 .	1							-11						244	***	
oneld.		Burrisal	401					,		***						100		***	111	***	
		Gournaddi Bouphul						***				14		447					***	***	
	Noakholly	Mankholly					1					44			**				249	***	
		Ponny		***	:						***	11					145			***	
		Kampanj	***	ļ				***		**	-91			***		***			+0.0	111	
	Furreedpore .	Furresdpore	,	ļ	l e				1					+4+	***	417	194		100	788	-
	Dacea	Munshigunge													***	131		144		1.77	
		Narningunge	i	1 ***			,				44.			1 411							l
		Manickeunge Joydebpore	į	***	}		147	1		***			**					***		***	
	Hill Tipperali	Agartola		I	***		***	1	1			***	***				100	***		400	
	Tipperah	Comilia		,			1						.,)	14			
		Brokeninbern Ramehaudra-	1	**	1 "							-1-									
		Nasirnagar Itaulkandi	1												***		***	***	***	844	
		Kacha					141								**				100	111	
	Mymensingh	Kisharegunge	144				k														
		Atin (Tangart) Memoremsh	"			**		}							.,						-
	1	Setrokona Subornakhally		, 	į			++-	1		1									100	
		furgapore Sherpore Town										44	***	**				11		**	١
		Downganj					***		1											>01	ı
tn Beboai	Pubna	Pubna Serajeunge				***			14.												ı
	Bogra	Sharpore Newklatla					**								1.89		714		000	***	
		Tanchhibi						*1													
	Rajshahye	Beauleah					1							***						244	
		Naugann Latyure							1			1		***		1 1				+04	1
	1	Manda			- 41			***					**		l	***		14		201	
	Maldah	Muldah Chancial					1								1		1		***	***	Ì
		Sibganj								1			***							***	ĺ
	Dinagapore	Mohadebpore Churamon											144			***				141	
		Raigunge Dinagepore		i •	,	***													- 4 4	100	
		Baloorghat Thakurgaon																	100	***	
	Rungpore	Bhawanigunge													, ,,	- 4 -		3.00		,	
		Rungpure				1 · ·												1	***		
		Bagdogen (Nelphamari), Ulipore			441		ł			174	140							***	.,,	801	l
	Euleumann	Julpigares		1.0			1							***			1 004	144		000	l
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		Michigange,		142		1	-22					181	1			1	†	***	100	111	
	Darjeeling Hill	Bura					-44				1.4	***	١.,				1		***	0.01	
		Parjeeling	1	***		1.67		41.	101	0'01	***		***	1000			.44	***	+41	411	
		Kulmiping			***	4.9(4)			1,11	***		***		***			>>>	98		419	
TH BEDAR	Purmosh .	Kissengunge Arrananli		***	***	***		44v			111	141	114	40.				***	215	100	
		Furnesh Conductra	***	***	***	***		100	111		100	1	1 44×		143	***	104	8.0.3	140 680	111	1
		Halarampure Matauri		***		100	100	1 400	***	***	14.							***	110	010	
	Want to the	Kattuyanj		***		,,,	***			-10	***	***	1.84	144	***	***	434	***	161	***	1
į	North Bhagul.	Maddapore			23.5 23.6	444		***		***	107				101	***	004		794	117	1
		Protabyanj	A		***	**		4.7				**	1.00		/41	***	***				1

Bengal in February 1890-continued.

23	23	28	58	20	27	25	Number of rainy days.	Average number of	Fotal rainfall for the month.	Average rainfull for the arenth,	Heaviest rainfall during the month.	Total rainfall from 1st January 1840 up to 28th Feb., 1850.	A verace minisal from 1st January up to 28th/Pebrusry.	Station.	District.	Meteominal division.
143	000	***	4 * * * * * * * * * * * * * * * * * * *	586 4.	**** *** *** *** ***	***	NII NII NII NII NII NII	1.8 2.1 2.6 1.8	NII NII NII NII NII	1113 1130 0196 0982 †	No.	0146 018 0159 6183 N11 0123	1 to0 2 of 1 of 1 of 1 of	Patuakhaliy Perozepore, Burrisal, Bhola, Gournaddi, Bauphal,	Beckerguige	EAST BREGAL - concid.
4.47	*** *** ***	41	1 215			0'13	Nil Nil Nil	223	NII 0 13 Nii Nii	0197 1130 1	Nil 0 13 Nil Nil	0°41 0°78 0°36 Nil	1:41 1:08 ?	Noakholly Fonny. Harishpore. Rampanj.	Noakholiy.	
171		249				447	No No No	2'1 8 6 2'1	NII NII NII	0°97 1°20 1°22	Nil Nil	212 1 50 1 76	1:59 1:63 1:62	Madaripore Furreedpore. Goalundo.	Furrendpore.	
110	0 B	4.			400	1	Ni Nil Nil Nil Nil	2.0	NII NII NII NII	1:35 1:01 0:98 1:15	No.	1:14 2:70 0:74 1:68 1:94	1'59 1'3. 1'34 1'59	Munshigunge. Daoca. Narningunge. Manickgunge Joydebpore.	Duern.	-
***			***				Nil	21	Nil	1.15	Nil	Ç130	1'98	Agartola	Hill Tipperah	
***	1 000 1 000 1 100	1		***			NI NI	2 2 2	NII NII NII NII	0.89	Nil Nil Nil	0160 1 13 2114 0168	1'40 1'44 2'07	Comilia Chandpare, Brahmasboria, Ramehandra,	Tipperah.	
***					***	1 4 4 7 1	Not Not Not Not Not Not Not Not Not Not	2.8	No.	9. 0. 0. 0.	NI	1 :00 1 :46 Nu 0 30	9	Sasuragar Dadkandi, Kagara, Lakeham,		•
.,,	· · · · · · · · · · · · · · · · · · ·	004 045 145					No No No No No No No No No No No No No N	10	NA NA NA NA NA NA NA NA NA	0'88 1'14 1'10 1 07 0'40 2	No.	1124 1767 1778 1987 1987 1988 1788 1778	P	Kishoregungo. Atta (Tangad). Mymousingh. Jamalyoro. Netrosons. Subornakhally. Durgapore. Sharopure Towa Dewangaaj.	Mytionaugh.	
	64		1 # 4		1		Nil	2.8	Nil	1.01	Nit	0103 0123	1'52	Puhna Serajgunge.	Pubna	NORTH BENGAL.
					***		No No No No No No No No No No No No No N	1'8 1'8 1'8	Nil Nil Nil	0750 0767 0752	Nat Nat	0'01 1 45 0'70 1'02	1:91	Sherpure Nowahilla, Boxra, Panuabibi,	Bogen,	
har		***		***		741 151	No No No No No	12	Nil Nil Nil Nil	0149 0149 0133 1	No. 1 No. 1 No. 1 No. 1 No. 1	0/16 Nd Nd Nd Nd Nd	1140	Beauleah Natture, Naogaan, Laipore, Manda,	Rajshahye.	
	1.4			0*08	***		Nil Nil Nil	314 211 2	0'00 Nil Nil Nil	0173 0166 P	Nii Nii Nii Nii	0:06 Na Na Na Na	117	Maldah Chanchal, Gajot, Sibgunj,	Maldah,	
			***				No No No No No No No No No No No No No N	1.6 1.6 1.4 1.8	NII NII NII NII NII		No.	N0 N0 6-12 6-49 6-61 0-61 0-34	0'88 I 0'88 I 0 81 I	Constehpere Churamou, Enigungo, Oinngopoee, Infloreint Phainrygon,	Dinageр-го.	
			***				Nii Nii Nii Nii	1.2	Nil Nil Nil Nil	0.21	NII NII NII NII	0184 0157 011.5 0180	0°52 0°82 1°02	Rungpore, Kungmm. Baadogra, Nilphamari,	Rungpore,	
***		14	***		***	66- 663 664 684	NII NII NII NII	1-4	Nii Nii Nii Nii Nii	0130	Na Na Na Na Na Na	0:10 0:18 Nii 0:80 1:02 0:71	7	Palacutta. Pebigan, Bhogutpore	Julpigores.	
11				**			NII NII NII	1'6	NO NO NO	0 34 0'29 0'28 0'29	Nil Nil Nil	0.83 0.65 1.03 0.40	0.15	(Naprakatta.) Dinnatta Cooch Hehar Micklistungo. Matabhanga.	Cooch Rehar	13
6.		*04	*** *** ***	***	0.01	494	Nil Nil Nil	2.0 2.9 2.9	8:01 Nil 6:01 Nil Nil Nil	0.00 1.14 0.53	0'01 Nil 0'01 Nil Nil	1 20 0 31 0 31 0 70 1 98	1,88	Bura Siliguri Darjeeling, Kalunpong, Kurseong,	Darjoeline,	
440	110	984 211 247 262 482	94	0.03	**** *** *** ***	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NII NII NII NII NII NII	1.0	NII NII NII NII NII	0144 0163 0163 7	No.	1/30 6/11 6/02 Nil Nil 0/20	1.03	Kissengunge Arrurosh, Purnosh, Gondongo, Halarampore Halarampore	Purnesh	NOUTE BEHAR.
	155	***	***	***	+84 +94		Nil Nil Nil	1.4	NII Nil Nil	0158 6139 F	Nii Nii Nii	211 211 211	1103	Kallayanj, Maddaporv Soupool, Protabyanj,	North Bhagul.	

Table of Rainfall recorded at Stations i

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Meteorotopics! dismon.	Dustriot.	Station.	1	2	3	٠	6		7	8	9	10	11	12	18	14		16	17	18	19	
THE ASSESSMENT OF THE PARTY OF	Durbhungs	Taipore										p			!		1	0 %			***	
-cuncid.		Bakera Roshera				***								, 994			! ! ***	1			***	
	Mosufferpore	Sitamarhi Morufferpore Hajmore	Ξ.	**		*** *** *	***			+++ +++	1	i ***		### ### #:				67	-66 -47 -4.		100 100 100	
	1	Paru Mahas Souhar Papri							: 1			***							1 *			-
	Champarun	Metihari Bettrah Barbaras Barbaras						1 10 10 10 10 10 10 10 10 10 10 10 10 10				-51	***	4+4	- 45		****		***	***	***	-
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CAN BEAU	Shahahad	Rugar Dehree Bhurocah					***	***			***					191	•••		";		4.,	
		Arreli Mohanish				***	144	Ė		***		***									1	
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	Loharduaga	Karagieka Kamphar Lohardugga Rauchi	200	***		,			***				1		444				444	,		
	~	Palatnow Silli Balumat Haserwahad		***					200	* 89	497 497 499	***		***	0.04 0.00 1.00 0.00	1 111			11.	440	517 649 640	
	Hingbhoom	Chrebesta Chakradhar		1117	***	***	-	***	::	***		***	0.04 1.1.	100			-44		100		445	
	2	Ghatesla Baharagura								***	*** ***	***		200	100		617	100	**		441	
	Manthoom	Rightmath-	***		-		1 124			***	***	201	190.		***	100	100	1	999		491	
		Harrabhoom Jhaida Chas	201	i **		44.	1	467		ete:	***	000	132	991 984	***	41		600	***	,	290 231	

Bengal for the month of February 1890-concluded.

2)	23	28	80	25	26	87	50	Number of rainy	Average number of rain; days.	Total rainfall (or the month.	Average rainfull for the month.	Heaviort rainfall during the month.	Total rainfall from 1st January 1980 up to 29th Pec. 1884.	Average rainfall from 1st January up to 23th Pebruary.	Station.	District.	Meteorological division.
201 201 201 201	100000 000000 100000	**** ***	564 64)		0.01	300 300 201 201 804	010	NII NII NII	1°1 1°5 1°1 ?	O'OI Nil Nil Nil	0°88 0°63 0°63	orol Nil Nil Nil Nil	0°16 0°23 0°45 N ii P il	-1*08 0*96 1*15	Tajpore Durbhunga, Madhubani Bakera, Roshera,	Durbhunga	NORTH BREAD-soucid.
.p	-00000 *10000 9400 *10000 *10000 *10000	000	000	000	0.08		7-0-4 7-4 0-0-0 0-0-0 0-0-0 1-0-0	NO NO NO NO NO NO NO NO NO NO NO NO NO N	1'8 1'6 1'6 1'6 ?	Nil Nil 0:05 Nil Nil Nil Nil	0:80 0:46 9	NII 0:06 NII NII NII	0°19 8'06 0°10 N11 N11 0°40 0°34	0°83 1°39 1°11 ?	Sitamarhi Mosufferpore. Hajipore. Paru. Mahua. Siuhar. Papri.	Mosufferpore.	- 1
		***	600 600 -01	110	0.00	100	***	NII NII I	1'8 1'1 7	Nil Nil Dion Nil	0199 6141 7 7	Nil Nil 0:09 Nil	3(1) 0.48 0.48	0.78 1.10 P	Motihari Bettiah. Bagaka. Burburwa.	Chumparun.	
	130700	***	600	655 B06	0,10	141	000	NU 1 NH	1°B 1°4 1°1	NII 0 ob NiI	0:49 0:43	0.00 Nil	Nil 0:09 2011	1.58 1.53 1.19	Gopalgunge Sewan. Chuprah.	Sarun,	
901 803 903 903 409 100	00000000000000000000000000000000000000	000	000 000 000 000 000	0.08	0.04	***	200	Nil Nil Nil 1 1	1°6 1'0 1'3 1'6 1'6	Nil Nil Nil 0°06 0°04 Nil	0:33 0:30 0:40 0:48 0.54	Nil Nil nos 004 Nil	Nil Nil 0'05 0'04 Nil	1°11 0°82 1°17 8°98 1°37	Buzar Debroo. Bhubocah. Baseram. Arah. Mohanish.	Shahabad	SOUTH REMAR.
540 600 194 441 443 443 999	330000 *CD0000 000447 300700 D00770 ***************************	119	100 004 100 100 100	000	0.07	000 000 000 000 000 000	### ##################################	Nil Nil Nil Nil Nil Nil Nil Nil	1'4 1'8 1'1 1'1 1'1 1'	NII NII NII 0°07 NII NII NII NII	0°84 U°80 0°44 0°40	NII NII O'07 NII NII NII NII	Mil Nil O'97 Nil Nik Sil Nil Nil	0°95 1°23 1°16 1°18 9	Anrungabed Gya. Nowadah. Jehanabad. Arusal. Daudnagur. Sheerghati. Kajanii. Pakri Bara- tten.	Gya.	
0+0 +#8 9+4 ++++++++++++++++++++++++++++++++++	**************************************	900 000 000 000 000	*** *** *** *** ***	100 000 110 000	20°0 0°08	000 000 000	0 mg 0 mg 0 mg 0 mg 0 mg 0 mg 0 mg 0 mg	NII NII NII	1'8 0'8 1'8 1'3	NII 0-02 NII NII 0-06	0.47 0.20 0.27 0.43 1	Nil 9'03 Nil Nil Nil	0.03 Nii 0.03 Nii Nii 0.08	1-16 6-29 1-19 0-90	Patna Dinapore, Rehar, Barrh, Bickrom, Hiles,	Patna.	
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SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVATIONS TAKEN IN ASSAM, FOR THE MONTH OF FEBRUARY 1890.

The normal meteorological conditions obtaining in Bengal during February are to a considerable extent similar to those of January; but during February, and particularly towards its close, the transition period between the cold and hot season commences to make itself felt. One of the most important features of February is undoubtedly the rather rapid increase of temperature which commences in this month and which continues during the following two or three months. This increase is due to the rapidly increasing elevation of the sun, and this heating effect is much more pronounced over the land area than over the sea, so that the dry northerly winds at the southern stations commence to be replaced by maist southern and this heating effect is much more pronounced over the land area than over the sea, so that the dry northerly winds at the southern stations commence to be replaced by moist southerly winds blowing from the sea. The normal conditions in February are therefore comparatively simple. Winds continue generally northerly and north-westerly, except at the southern stations. The sky is clear, and unless conditions are changed by the cocurrence of storms, no rain falls. Pressure remains high, while temperature steadily rises, though the night temperatures usually remain fairly low. Humidity also continues low over the greater part of the province except at the southern stations, where the southerly winds set in when rapid and large changes in humidity occur. These normal conditions are, however, liable to be disturbed by the formation or advance of barometric depressions or atorms over Northern and Central India which drift eastwards and southwards, giving heavily-clouded skies, a moist atmosphere and rain to Bengal and Behar, the rainfall during such storms being generally fairly well distributed. Occasionally also by the interaction of the moist sea winds with the dry land breezes local storms, called nor'-westere, are produced which give rainfall, which is only local and very irregularly distributed. Such storms are, however, generally confined to the close of the month, and when they do occur they are sometimes rather violent and attended with more or less severe hailstorms.

The whole of the rainfall in February is therefore brought about by these abnormal conditions, and it is generally small in amount and somewhat irregularly distributed, though usually larger than in January. The normal fall averages from about an inch in East and South-West Bengal and Orissa, and rather more than half an inch in North Bengal and

Chutia Nagpur, to about four-tenths of an inch in Behar.

Meteorology of the month.—The important features in the meteorology of February 1890

in Bengal have been-

1st.—Pressure has been in defect of the normal in all districts, the usual defect averaging about two-hundredths of an inch, and being decidedly larger in East Bengal and parts of Assam than it has been elsowhere, and the defects being smallest in the western districts of Behar.

2nd.—Temperature has varied very largely during the month. It was considerably below the normal in the first week, about normal in the second week, and

about three or four degrees above it for the remainder of the month.

3rd.—The variations of humidity from the normal have been considerable but about equal numbers of stations have shown defective and excessive humidity, so that the general average is not very far from normal. Cloud proportion has

that the general average is not very lar from normal. Cloud proportion has in all districts been very considerably below the normal, the defects in several cases ranging up to about twenty per cent.

4th—There has been a singular absence of influential barometric depressions or storms visiting the province during February, and though two such depressions have affected the weather slightly, in no case have these depressions been of sufficient importance to be classed as storms, and in no case have they given

any general heavy rainfall to any large districts.

5th.—The rainfall of February has been therefore confined to a few local showers of little or no importance, and in no district have the falls averaged more than three or four-hundredths of an inch; while South-West Bengal, North Bengal, and Chutia Nagpur have been rainless.

At the close of January two barometric depressions or disturbances had passed through the province, and had given fairly general rain to most of the stations in the plains, while along the line of the hills to the north and north-west of the province snow had fallen. A cold wave of northerly winds then set in over Bengal, and the general weather conditions during the early part of February became those of the north-east monsoon or cold weather in a pronounced form. These conditions lasted throughout the whole of the first week of February, during which skies were almost cloudless, temperature and humidity were decidedly low, while pressure was high, and there was a complete absence of rain. During the second week of the month there were no very large changes in the meteorological conditions from day to day, but there was a steady but slow tendency for the disappearance of the north-east monsoon or cold-weather conditions, and towards the gradual establishment of the conditions which accompany or immediately precede the transition conditions between the hot and cold seasons. There was therefore during this period a steady increase of temperature accompanied by rather high humidity at the southern stations, while also gradually southerly winds commenced to establish themselves over the province. In the third week the general result of the meteorological changes was to entirely efface the conditions which obtain during At the close of January two barometric depressions or disturbances had passed through the result of the meteorelogical changes was to entirely efface the conditions which obtain during the cold season and to almost bring about the hot weather conditions. During this week

there was a slight break in the gradual establishment of the hot season conditions during the passage of a barometric depression through the province. This depression was first observed at Jacobabad on the morning of the 15th, and it gradually moved in an easterly direction and passed through Bengal on the 17th and 18th instants. In front of the depression, as usual, temperature was very high, but after it had passed away in an easterly direction, temperature in Bengal fell very decidedly. The effect was, however, only very temporary, and temperature rapidly again became above the normal. Though this depression was a decidedly influential rapidly again became above the normal. Though this depression was a decidedly influential one, as judged by the fall of pressure, yet it was practically of little importance, as it was unaccompanied by rain. Up to the 25th hot weather conditions again commenced to re-establish themselves, but on this date, owing to certain barometric changes which had been taking place, a distinct but feeble low-pressure area was formed over North Bengal and part of Behar. This slight disturbance appears to have been sufficiently influential to produce a few local showers were reported in Behar, North Bengal, and Orissa. Before the close of the month, however, the slight depression had practically entirely filled up, and conditions were those however, the slight depression had practically entirely filled up, and conditions were those which usually accompany the gradual setting in of the hot weather. The month, therefore, has been characterised by the almost complete absence of any influential storms, and thus rainfall has been almost entirely absent in all districts.

Frequere - Was during the first week of the month decidedly in excess of the normal, the average excess ranging from four to seven-hundredths of an inch. In the second week this excess had decreased considerably, and it only amounted to between two and four-hundredths of an inch. In the third week conditions had become entirely reversed, and there was a defect which in different districts varied from nine to twelve-hundredths of an inch; while in the fourth week pressure was still in defect, but the defect had decreased usually to between three and four-hundredths of an inch; though in North Bengal and North Behar, owing to the formation of the slight depression above alluded to, the defect equalled from four to six-hundredths of an inch. For the whole month the mean average pressure has been in distinct defect of the normal, the usual defect equalling about two or three-hundredths of an inch; the defects being comparatively large in East Bengal and parts of Assam, and decidedly small in

the western parts of Behar.

Temperature.—The average mean temperature for the first week in February was 1.6° in defect of the normal. In the second week temperature had become almost normal. In the third week a general rise in the mean temperature of from four to six degrees took place, and temperature became from four to five degrees above the normal of the period; and in the fourth week there was again a general rise in the mean temperature of the province by about one and-a-half to three degrees, though in this period the actual temperatures were only about three degrees in excess of the normal. For the whole mouth, therefore, the mean temperature of the province has been about 1.6° in excess of the normal, the excess being largest in such districts as North Bengal, South Behar, and Chutia Nagpur, where it ranged from two to three degrees. In Assam also the mean excess was 2.7°.

The following table shows generally the variation of the mean temperature at nine

typical stations in different districts in Bengal, week by week, for the normal temperature :

					WREE	RUART]	1890.	WEEK	ERDING	14TH 1590,	WEEK	ENDING RUARY	a Ment Esso,	WEEK	RUARY I	i Seth Suo.
	STA	TIONS	1		Variation of actual mean maximum temperature of week	Variation of actual mean min'. noin temperature of week from normal mean.	Variation of actual mean daily funperature of week from normal mean,	Variation of setuel mean maximum temperature of week from normal meen.	Variation of actual mean mini- sum femperature of week from normal mean.	Variation of actual mean daily lemperature of week from normal mean.	Variation of actual mean maxi- antm temperature of week from Bormal mean.	Variation of actual mean mini- mure temporature of week from normal mean.	Vertition of actual mean daliy lemperature of week from normal mean.	Variation of actual mean maxi- man temperature of weak from normal mean.	Varintion of setting mean mini- min temperature of week from remainment.	Variation of artual mean daily tamperature of week from
uttack	. 4	100	hos	* \$	-2:4	-11	-17	+0%	+0.8	+015	+3.6	+1%	+2.9	+5:6	+1.3	+ 2
lalcutta	1 + 4	+ 4.0			-1.8	-8.3	- 8.9	+1'3	-8.6	-11	+ 314	4 4'5	+318	+810	+0'6	+1
Davon	pa e	10.00	***	.,.	1"0	-4.8	-3.0	+118	8.A	-014	+4%	+ 817	+6'4	+213	+2'0	+1
lurdwan	+49	Fi	***		-1.3	-4/3	217	+27	-4'0	-016	+7%	+410	+5'5	+411 -	+1'0	+2
atms.	***	***	***		0	-8:1	-1'6	+ 672	+915	+ 2'4	+6:0	4 4 1	+510	48.0	+87	9 43
)ya	199	844	991]	-118	- 2'3	-1'8	+2.3	+0'0	+1%	+51	+2,2	+ 414	+1'tl	+3'8	+2
'urnesh	e 61			1	-1'4	- 4'0	-2.0	+ 816	-19	+0.3	+318	+0.2	+310	+912	+115	+ 1
i amerijanj	h	1.0.0	444		+0*4	-172	-0'8	+ 318	+8'3	+3.1	+518	+81	+514	+ 870	4.810	+ 2
Darjoeling		+ 10-1	400		+10 71	+315	+ + 7'11'	+6°4	+5%	+6'8	+5'8	+67	+ 5.2	4-516 1	+ 217	+ 1

Rainfall .- Except for a few light showers in the Chittagong Hill Tracts and in a few districts in Behar and Oriesa, the whole province of Bengal has been practically rainless for the month. In Assum, however, a few showers have been reported at Sibsagar, which registered 0.96 inch, and at Sibhar, which has received 0.11 inch of rain. The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the month of February 1890:—

				6	1	BMPE	BATOR						ATWP	ALL.	1		
				month.	month.	Ave	month	for	th above of menth.	0	of mon	ith.	Bais	y day	8.	Since May	184h 1889.
Dialetor Weikorop			-	Highest observed during month	Lound observed during	Of highest of each day.	of lowest of each day.	Of mean for each day.	Average mean of month above or below normal mean of month	Averages.	Murmal average.	Variation.	Average number in month.	Normal average nam- ber in menth.	Variation.	Average.	Hormal present.
Orman	***	160	001	1014	4814	8618	64'1	74'9	+0%	0106	0:91	-0106	0'2	8.0	-07	68 1.6	86'35
iouth-West Bengal	0.00	844	1-24	9618	44'9	8811	6813	717	+1'3	Nu	1'08	- 1106	919	27	-81	94.67	58'00
Rast Bengal	0-0-0	***	001	9010	47'0	8814	87'6	70'0	+11	0104	1108	-0.80	0.1	32	-8.1	76'60	76'8
Morth Bungal'	wald	404		95.9	43'7	82'8	82°G	67-7	+2'3	Mil	0187	-0"57	0.0	1'6	-1.6	78'64	71'00
Worth Beha: *	***	***	011	6818	11'9	8016	80'4	65'6	+1%	0'01	0165	-0.40	0.3	13	-1.8	57'90	4919
iouth Behar	200	***	021	9216	48 6	6812	84'9	60-7	+27	0100	9166	-0146	918	1'6	-3.7	40'18	46.91
mutia Nagpur	100	164	000	57 2°	46.60	61'8"	48.44	66.4.	+3.20	Mil	9107	-0107	819	19	-13	40'04	30134
Lean.m	400	201	100	1074	4316	8979	56'8	6819	+87								

^{*} Poorer, Juipigeree, Durbins ga, and Chyebassa not included.

METEOROLOGICAL OFFICE, BERGA:,

The 11th March 1890.

A. PEDLER,

Meteorological Reporter to the Govt. of Bengal

Abstract of the Results of the Barometric and Thermometric Observations taken at 10 a.m. at the Meteorological Office, Chowringhee, in the month of February 1890.

The second secon	40		Inches.	Date.	
The mean pressure at 10 A.M. during the month	* * *	4 4 9	30.036		
The mean temperature at 10 A.M. during the mouth		400	75.8		
The highest temperature during the month			92.0	26th.	
The lowest temperature during the month			52.4	2nd and 3rd.	
The absolute range of temperature during the month	* * *		39·6		
The mean daily range of temperature during the mon	th		242		
The greatest range of temperature in one day during	the month	***	290	12th.	
The mean 10 A.M. humidity during the month	***		55		
The mean 10 A.M. vapour tension during the month			.486		
The total rainfall of the month			Nil.		
The greatest fall in 24 hours			Nil.		
			Days.		
The number of rainy days in the month	*** .		Nil.		

C. LITTLE,

For Meteorological Reporter to the Goot, of India.

METROROLOGICAL OFFICE, INDIA, The 10th March 1890.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 2nd to 8th March 1890.

		A. M.			Тимг	ratu n .			E	l vorometi	RT.	, En
MORTH,	Date.	Prosecute at 10 A.R. corrected and reduced to 32° Fahr.	Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10	Wet builb at 10	Vapour tension at 10 A.M.	Dow point at 10 a.M.	Humidity at 10	Rainfall past 24 hours,
		Inches.	•	•	•	0	0	rs	Inches.	•	7/2	Inches
1890	2nd 3rd 4th 5th 7th 8th	20-019 -049 -044 -077 -027 29-195 -964	70-2 77-6 79-6 77-8 77-1 77-6 77-2	83-9 90-0 85-1 87-7 87-8 90-0	15-5 28-1 20-9 14-7 21-8 20-5 25-6	684 69-1 70:4 66:4 67:3 64:4	73 6 80 6 82 0 79 1 70 8 79 3 82 0	66-6 72-4 74-5 66-0 69-6 67-6 72-6	560 6880 747 465 585 520 975	62 2 68 0 70 5 50 0 63 5 60 1 67 0	67 65 67 47 58 52 61	0.04
	The mea	в 10 а.м	. pross	ure of	the sev	en day					Inches. 30.025	
1	The mea The extr The max	eme vari	ation o	of temp	seven d erature	9	0.00				77·6 25·6 90·0	
	The mea						even de	ıys			60	
	Tht	fall of		On d	An Cal	Manol	1900				Inches 0.04	

C. LITTLE,

For Meteorological Reporter to the Goot. of India.

METEOROLOGICAL OFFICE, INDIA;
The 10th March 1890.

Meteorological Report of the Province of Benga

					J.				ST.	ATION	OBU	BRAVLION	16.			
			Arn	PRESE	RN.	Win	D.					TRMPHRAT	TRE.			
Dist a	107.	Representative station.	Meen harometric height, 3 A.M.	Mean reduced to	Varuation from	Prevailing dine- tion.	Mean wind 16. locity.	Highest during week.	Date		Lowest during	4	Mean marinum temperature.	Mean minimum temperature of week.	Mean daily tem- perature of week,	Variation from narmal mean of wrek.
		- Booren	801001	30'013		Variable	237	8718	1st	Mar.	1	P	1.98	P	1	1
Postue	***	Gopalpore False Point	2979961 29781	20.017	+ 1000	317 8 7 W	238	88-5	7th 3rd	11	70'4	Ymd War. Srd, 68h	8417 85 ti	73'6	70 1	+1.6
Cuttack	PSF 16	Cuttack	29*940	30'038	+*086	Calm	8417	9614	2nd, 6	th.,	96-8	Brd	(A310	70:3	8813	-1:1
Balasore	411 14	Balasore	291946	30'027	+1054	NNU	9414	91'4	āth	**	61.6	3rd	6715	01710	77'0	-1.9
South-West B	[idnapare	Bauger Taland	\$9760	30 024	+ '086	NWLSH	261	88 2	dth	8.7	71.9	3rd	54 3	76 %	79*8	+0.1
South 24-Per		Midnapore	2D-870	20 923	+ 1054	Variable	110.1	9413	5th		63 p	1st	01.8	68 7	79'0	-112
Midnapore 24-Pergunnal Howesh	50	Calcusta !	\$6.008	801124	- "UJS	Westerly	82	88 8	āth	0.2	62'%	Int	80-1	00 6	70'6	-40
Hooghly	***	Burdwas	20 908	30 009	+ 039	Calm	3414	92.8	5th	14	58 4	lat	163F ct	04.1	77'8	-0.1
Burdwas	-de -e	Bankooia	gp=663	\$915EHB	+*037	Calm	8614	921	6th	4.1	01.2	1st	PS1:3	6816	76'9	0
Rearbhoom		Ranougungo	gurce1	361037	+1003	Bouth-	6617	9218	4th	60	8916	7th	88.0	64'u	76'8	-0.3
Wool Burdwa	n		201930	201000	036	South-	8410	8916	gnd.	4th,	86.7	lat	96.0	02.0	76'0	-1.2
3loorshedaha		Berhampore	29-966	36,024	+*007	westerly	104%	W11V	bth 3		64°8		8012	CZ 3	7817	+07
Nudden			-D1984	30 005	+1064	Colm	6513	9118	48h, 68	ðs	61.9	161 .,	55 1	65 6	76'a	-019
Epoolus Immore		Johnsto									66.0	6: h, 7th	40x 41	6613	7712	
Chittagona	***	Chittagons	19 161	841026	4 1921	Calm &. Westerly	8170		oth, di			A. 44 3 6 55 3 4				mitta
Chittagong H	ili Trants	Demagiri	30-013	Senegal	+1074	Calm	85°V	1012		Mar.	6216	lut	14 6	67.7	76'1	-05
Backersunge	23m 11	Barries -	20.00d	301630	+ 1-02	Northerly	, (lia, (t	N7*0	5th		6110	ard	85.9	6817	78'0	+ 018
Nonkholly		Nonkholly	20.882	3870-6	+ "(10)%	South-	64 1	55 S	2nd, Ot	h,	81.8	int	64 9	6214	7310	-017
Purred pore	10.	Furredpore	90.040	30 003	+ 1037	Westerly.	75.5	91'1	ath	31	61.0	lst ,	5710	64.8	78'7	- () j
Daeca Commillah	181 *1	11.5	29/963	501020	⇒ Teáb	Southerly	4513	8014	4th, 5t	h,	623.19	āth	8417	6316	75'1	+0%
(ymensing)	***	Mymeosugh	51-1450	301970	- 1941	ENE	707	No. to	5th		86 7	78 h	8415	GI10	72'8	+6 >
Bogra	444 ***	Водга	20:016	Shippl	-5 °() € h	Calm	\$6 a	101 b	tth		56%	Int	87.3	59.7	22.9	+0%
Pubus	200	Sernjeunge	201950	אינוייעב	+ 1087	8W	a6 1	19611	ash	4+	Da'V	lat	PC1.0	84.49	73'1	['ij
kaj-habye	411 04	Charles and a second	m 1925	20.84	→ 050	SW	90%	805 5		Sth Mar.	68 7	int	85.7	60.3	73'0	-95
italdah		leak. Maldab	20'922	301000	+ 1108	SW	71'0	10010	4th	**	52'4	lut 11	6710	8672	71'9	-6.5
Dinagopore	545 20-	Dinagepore	291975	80.000	< 10°25	XW A	95.56	871	Bud-4	Mar.	50 1	Int ,,	80.0	5716	41.0	+0;
Rungpore	***	Rungpore	\$5.996	20 011	→ *U7U	Ensterly	73.6	86.1	and	0.0	46.0	lst ,,	\$510	5014	707	e 0 -
ulpigoree	*** *** }	Julpigoree	2×703	20,003	4 (40	NF &	94'6	83.10	Int &	7th	4810	6th & 7th Mar.	83.0	5618	Ø8*4	-[9)
erjeeling Hill		Darjeeling	22:970		-	Variable	1350	5010	44h	**	37.1	7th H	53.9	8416	46.1	-21
Pormenh	}	Purneah	291NO1	25/1999	+1048	Variable	6179	5G'7	3rd		40.0	lst ,,	84 1	6572	q0.1	<u></u>
forth Bhagui								Observ	rations		hebs	.,		,	-	
dozufferpore Durbhunse	101	Mornflerpore Durbbunga	29 893	20 0%	4 '880	Westerly	95%	87.2		Mar.	7	,	69.8	r	7	į
Thumperun n	101	Mottheri	29.774	30'015	+ 'U' 4	WsW	189%	6612	4th	1.	40.0	3rd	91.2	83:0	03.8	-17
erus	404 (6)	Chupra	29796	\$2,000	+ 1061	WWW.	P1.h	8013	7th	**	86.0	3rd	60,21	87*1	Q9'0	-8.9
hahabe d	1	Deliree	297668 19 760 297814	2016384 341632 50 630	9 '862 9 '863 9 '875 9 '875	Westerly Variable	102 6 11679 97 9	90°8 8624 91 1	ath ath	**	87:0 89:4 86:2	int & 7th,	86°U 84°S 84°7	61.5 61.5	73°0 72°0 72°0	+114
37 &	100	Gya	E0:621	30'017	- °e33	В	194-3	93.0	81 ts	A.1	60.3	End	86 8	12'9	74'3	-10
Patns	10m - 2.71	Banktporn	TU 835	30 020	+ 1058	Wisterly	6417	\$150 at	46 %		87%	let ,	63/3	00.0	7910	_m5
South Bhagul Longvyr	pore)	Bhagulpore	29'821	23/75/00	+ 042	Calm	\$619	Birs	46.11	.,	67:0	ard .,	861	60.9	7316	+077
Southal Perru	mma) s	Doomks	291497	30 0.5	+ 4/153	est.	727	9012	at in	**	#138	Let	8716	61 1		-10
Hasaribagh		Hasaribagh	87:971	20:1/20	+ 1061	Westerly,	15012	87.8	-eth	de*	87'0	7th	93.9	19.8	71'1	-1/3
Appropriate of the control of the co	*** ***	Ranchee	37 '840	30 631	+ '043	North-	125%	19.814	lat	4.0	87.8	1st ,,	81.7	50-0		-116
Binabheom	0.00	Chyebasea	29*287	80-096	+0166	dissilent.	45.4	841.7	66h	4.4	nons	But	8914	6810	76'6	-017

Explanation.—Summory.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the The interests of the atmosphere is expressed at percentage, acturated air bails presented by use. A short sky is denoted by used an average at the randal in that district determined from the returns sent in by the substitutional station for the period in quantum during the stations are the station of the period of the number of stations. A rainy day is one on which at least hundred to of an inch fell.

or the week ending Friday, the 7th of March 1890.

									RHRVATIO		.57				
	rent.	12						RAIS	FALL.						
	cloud amount	f week	OP V	VERE.	Bino	or lat of mo	nth.	Sino	n 15th May	1889,	number 7 days.	namber.	Representative	Distator	. /
	Average clo	Rain'all of weak observing station.	Menn for district.	Normal Beenth,	Mesn for district.	Normal Invan.	Variation.	district.	Normal mean.	Variation.	Average do	Normal na		· of	
	3·7 1·6 6·3	Nil Nil 0'34	0.09	0°17	0.40	0.11	-0.11	76'00	\$0:03	+15'87	0.3	U15	Ponvee Gopathore False Point	Poores	
5	8.4	Nil	0.01	0.01	0:01	0.65	-0.81	06*42	83:01	+13-61	978	, 0.5	Guttack	Outtack	
6	014	0.45	0107	0117	0.02	0.13	- 0.14	50"14	91.91	-4.40	0.9	0.8	Brinsore	. Balasore	
9	6.7	Nil	Nil	0185	NH	0.33	0*83	SNIGE	6410N	-5166	0.9.	0.4	Saucor Smend	South-West Mid	nanor
	81	0.50	0.08	0'41	0.08	0140	-0141	46187	29 95	-6.90	0*31	- 0'7	Midnapore	Midneyers	
17		0 20	0.00	0.41	0 00		1					the contract of the contract o		Midnapore	
10	611	0.03	0.88	0144	0.58	0 44	0.33	54.35	53 35	+0*07	0'8	1.0	Oalentta-	Hooshin - "	
19	5'6	Nii	Nii	0.88	Nil	0.25	~039	43 Hu	48 13	-124	0.0	015	Burdwan	. Burdwan .	
ld l	4.0	0146	0 15	0.23	0.12	62.0	-0°08	80.08	53.51	4-218s	1:0	(): i]	the selection	Baukoora	
3	31	0168	0.15	014	6119	Ó*14	+0.02	52 85	52.74	-0 00	1:a	0.8	Raneegunge	(Beerbhoom	
1	74	0'18	0.15	0.10	0.12	0.10	-0.04	61*99	61.80	-0'21	1:3	0.0	Berhampore	r nast Diffamilia	***
75 · 1	610	Nil	0.07	0.20	0.03	ดะขอ	-0.25	51 65	80 57	+1'11	0.8	0'8	Cuchanahaa	Moorshedabad Nuddea	ijen.
	6.0	Nil		0 82		0.25	-0.45	56:70	54 65	-0.00	0.0	1.0		S Jessero	
96			0.04		0,04								Josepe	Khooka	
55	7.0	0.02	0.08	0.78	0.02	0.76	-0.71	100 40	115°27 00 51	-16:47	0.5	1*9	Chittagong	Chittagong	
	313	9.774	NII ;	0.00	Nit	1'02	-0.60	78 41	78175	-1:30	0.0	1.3	1	Chistagong Hill	Tract
le !	0.2	NII	NII (127	Nil	1 27	-1:12	01.01	109 63	-0'31 -15' @	0'0	1.2	Marrieri	Backergunge	(Ps
36r 1	36	Nil	0'15 Nat	0164	0 15 Nil	0:01	-(116)	81.34	67-60	+4'60	0.0	1.5	Noakholty	Nonkholly	
31. 81	6.4	0'01	0103	£10.1)	500	0 89	-0147	74125	01.30	+1102	0,2	0 11	Furreedpore .		810
51	270	Nii	0.33	Drisid	611	0.44	- 0101	5 75	70189	-14'20	u·5	1.1	Commillah	Dacca	
34	6.1	dinja	0 02	0.47	0.02	0147	= 1F14&	59:10	85170	4-20 10	0 2	0.0	Mymoningh	lymensingh	
	270	0.00	0.02	0 123	6'0)	() oth	-0 24	(55 157	\$9150	+ 7:37	015	0.7	1 44	Rogea	
5 q	4.1	0.08	0.19	0.33	0.10	0.33	-0 17	55'53	84:73	4-U 88	2'n ,	0.7	Sornjenne	Startana.	
b	a*19	0.03	0.03	0.44	0 03	0124	-v*21	56'35	54184	-0.41	0,2	0.5	Rampore Beauter		
61	919	0.19	u:00	070	0108	0:10	-0.04	70.83	54191	-15'04	9 B	0%	Maideh	Maldah ,,	
6	5.4	Nil	0.03	0 35	0.03	0.12	-0.11	57'51	58-01	—0 50	0.5	014	Випкароге	Dinagepore	
* . * *	0.4	Nil	Nit	0184	Nil	0.51	-0184	10 87	74'50	+ 11:37	0*(1	0.4	Rungpore .		
73	119	Nil	Nil	0114	Nil	0*+4	-0.14	117:78	111176	+0 95	œ0	0.9	Impucores	Julpigoree	
74	30	Nii	Nil	0.15	Nil	0.53	-0.15	133'46	122:16	+11 30	D*u	0.0	the result of the	Ta	
	1.7		0.08		1		-0107	78105						Purnoals	A PROLA
E.	* 6	0*98		0111	0 05	0.12			89/30	4-15'75	610	0.4	Purnoun ,	North Blangulpo	re
der.	41.7	•	0.07	0181	9107	0,31	0:14	68/02	44:14	+ 6'78	1.0	0 B	Mexularpore .	Mozufferpora	***
67	217	0118	0116	0.09	Dur0	0.00	-0.08	62:17	63 01	4 G 198	017	0.4	· Datipungs	Durbhunga	***
41	316	0.51	0'15	0181	6.12	0.21	-0'00	64:11	47.38	+18.73	1.0	0.4	Motimura	Obumpurum	***
E3	4.0 sum	0.41	0.12	0.00	0.12	0.09	4-1108	40.20	43152	-7 23	13	0.3	Chapts	Surun	***
61	9.9	90,09 9,50 0,50	0'84	0.18	0185	0.18	+ 0*80	M .e.	60 56	-0.10	1.0	0.4	Harrier Estadi	Shahabad	230
10	3.1	0.50	0'17	0 11	0.12	0'11	+0104	37'80	62:15	-4.80	115	0.4	USB.	G7n	40.
12	20	0.04	0.13	0.00	0111	¢°u9	40'01	43101	41 80	+1'79	0.8	0.4	bankipote	l'atna	121
10	279	Nis .	0100	0'11	0106	0'11	-0.00	48.92	431100	-1:27	010	0.4	ilmigusparo	South Dingulpor	641
55	171	8:16	0120	0.17	0196	0117	4-0:00	56161	81148	+2785	1.9	0,9	Houman	Southal Perguna	16 la n
54	41	0"18	0 84	0.50	0134	0.50	+0.14	43/37	81.52	-7.83	115	0.0	Hazaribagh .	Hazaribagh	411
Ø :	3.4	1784	{1°1p.	0.17	1:10	0.17	4 1102	18.89	\$0:02 \$6'aD	-0169 -0127	9.0	0.9	kanoni	Lonarduges	***
			, D 60	0.53	U166	97£1	+0.21	40 01	AQ 51h		- 4	90		1	

The variations are negative when the enough for the week is less than the corresponding normal mean, and positive when greater, the water sky head by 10. Under the head District observations of rainfall the formal incans. The means of the district, for, from total rainfall at the saudivisional return received in the district, f.e., from total rainfall at the saudivisional

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 7th of March 1890.

	1 1/2				R	ATRVALI	34			To	TAL				
De	9-		R	Sud	7	4	.* .	eth	看	o.	of	Total rain-	Average total rain- fall from	Total min-	ATPENDE PROTEIN
Meteorological division.	District.	Station.	Saturday. March.	Sunday, 2	Monday.	Tuesday.	Wednesday, 5th March.	Thursday.	Friday.	Number or	Rainfall week.	nut of month.	ist of month.	leth Mny less.	from is May a date.
Outess	Ponres	Pooree	11/11		1	*****				Nit	NII	NIL	0 23 0:07	80:71 70:57	89.41
		Khurdah Haupur Paise Point Gop Papii	dates 4:4 mg egabek	*****	*****	3 1 2 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4		***************************************	0.14	Not Not Not Not 1	Nil 0'24	N () N () 0'24	013	46:30 77:00	67 % 80 11 6616
	Cuttack	Jagatsiugpore Banki	*****	194144	1 484400	*****		0.03	211 FE	Nil	Nil	Nii 0'03	0°26 0°97 0°32	74:40 8± 55 75 49	67 pa Buran
		Cuttack Kendrapara Jalpore Dharmsala Salipore	000 tm	******	# # # # # # # # # # # # # # # # # # #	P4 · · · · · · · · · · · · · · · · · · ·	480 x44		**************************************	NII NII NII NII NII	Nil Nil Nil Nil Nil	Nil Nil Nil Nil	0°10 0°20 7	72 94 67 14 59 25 78 47	67 10 64 11 85 101
	Raissore	Chandbali Bhuddruck	110 100	1 11111		-4-11	+89 + 61 +81 11	0109	*****	Nil Nil	Nil mos Nil	Nil 0'08 Nil	0.1h 0.1h	85°04 88°04 46°05	61:00 63:22 62:15
		Balasoro Jeliasoro Rampedah	24 1 71 210187 12188	0.32		41111 -10108	100100 1111000 122	400 .0	41 + 8 + - + 1 - + 8 + - + - 	Nil Nil	No.	Nil Nil	0114 0114 0104	47:18 30:76 54:19	52 49 53 40 54 43
SERGAL.	Midnapore	Contai Sauger Island Tumlock	*****	*****				*****	******	Not Not Not Not	Nil Nil Nil	Nil Nil Nil	0120 0123 0140	85127 50195 40160	61 W
		Hainapore Ghattal Kukrahaty Garbetta	######################################	0.23		******			2004	No.	No. 1.80	Nil 6:23 Nil 1:88	0:241 0:20 ? P	48 58 50 95 50 95	86 36 88 53
	14-Pergunnahs	Diamond Har-	******	ļ ļ	*****		337-07	***	*****	No.	Nil Nil	NH NH	0'57	63 '79 67 '85	gn:79
		Counsing Town Alipore Jail Barrackpore	******	0.13	141111	**	******	******	48.17	Sil L	Nii 9, 3	Nii 0:13 0:49	0160 0 61 0161	5: 47 5: 25 65 53	87 24 31 74 64 64
		Dum-Dum Barnet Buseerhat	22127	0.00		****	*** 4	******	1. /	Nil Nii	Nil Nil	Nil Nil	0°55 0°56	62 41	8; 5) 86 1;
	Howrah	Howmh Mohesreka* (Coloberish.	*****	0:15			*****		****	21	N:1 0:18	Nul Nul	0.11	65104 65104	83°53 83°54
	Hooghly	Serampore		0:18				*****		Nil Nil	1.62 Nij 0.14	Nil 1:63	0:29 0:34 0:21	83:70 37:33 43:34	51°79 49 % 86 33
	Burdwan	Jehanahad		1.63	******	3. ***			444744	Nit Nit	Nii	Nil Nil	0°84 0°45	41'32 47'25	\$2.77 40:11
		Cutwa Cutwa Hancegungo Manker			400 1	* ***		0.63		Nil Nil	Nil Nil 1063 Nil	Ni wii3 Nil	0.89 0.89	63 11 63 63 63 60	60 44 60 44
	Bankoora	Bankoora Bashenpore	*****	0'03				0:41		Nii	0 47 Nil	0147 Will 0103	0'66 0'31 0'eā	81 33 87 49	52'81 53'03
		Malara Khatra Indas		Ft 10F			0°03	0100	4.	NII	0100 0100 Niii	0 10 0:09 Nil	0.18 P	60°01 65°28 68°60	52°C1 53°C1
		Katalpore Anda Gangajalghati		11***		*** **	*****	0.13	****	NII NII	No.	Nil O'11 Nil		4/1 44 Bit 99 BK 35	1
		Raspore	** **		*****	871-1	., .	1711		Nil 2	Nil onss	Nil 0:35	0 15	89'41	j 54100
	Beechheam	Bh. Soory Hetampore Rampore Haut	** *** ***** *****	-0465			0°10 6°41	0.16		1	0'33 0'67 0'07	0:31 0:07 0:07	0.08	47/88 47/88 65/11	03.42 92,23
		Hutpare	4 = 101	-1 -01			******		***	Nil Nil	Nil	Nil	0:81	68'10 80'10	i 4550
	Nuddra	Ranaghat hottanghur	400.0	19447	******	******	0.00	6:03	#20.00 	Nil Nil	Nil 0'07	Nil Nil 0:07	0.35 0.38	42'98 40'96 63'22	67°37 83°65 69°07
	851	Melorpore Kooshtos	*****	100000		##* I # ##* I #	0.10	0.02	>#fc44	2 E Nil	0/15 Níl	0°15	0.43	86'81	65°95
	Khootaa	Barrena	700 -04 1 44	**************************************		*100*0	0 25		25 · · · ·	Nil 1	Nat 0788	Nil 0'28	0'51 0'63 ?	50.48 57:07	66'57 P
	Jaseore	Rampal	******	101.11		0128		******	40	Nil	0'28 NII	0°28 Nil	0:37	82'01	47/50
		Joseph	,,,,,	1/2-4;		******	198121	0.04	100111	Nil	Nil Nil 6'04	NH NH 0'04	0150 0180 0130	89:90 80:74 88:86	85°91 85°25 80°01
3 . 1	Whatedshad	Bourong		144 -	49771	******	018	0.10	,,	Nil	N11 0'25	0125	0'43	47'64 53'63	83'25
T., .		Berhampore Laliagh Azimeunge				1,0100		0.09		1	0°15 0°65	0.12	0°26 0°18 0°18	40°43 47°18	82.19 83.19 83.19
		Laiguia	.,,,,,,,	\$\$0.00 10000 00000	114	104111	0.00	0:04 0:06	******	1 2	0°14 0°04 0°16	0°14 0°04 0°10	0.18 0.10 1	8618 8616 43139	49°97 \$1'73
		Patkabari	*****	101111	7 5001	*****	6100	*55100	900100	Nil	0/06 N41	Ni1	0.84	42.13	19711
EAST RESGAL	Chittagong	Con's Burar Chittagong Kulubdea	#9# 11 -541*1 -411*2	181 (0) 181 (0) 0 (191		\$6000P	940.44	****** ******	0.09	Nil Nil Ivil	N il 0:60 2011 N il	N 11 N 11	0.84	193'59 77'48 115'09 03'66	100
	Ubittegong	Barkanya	- 40	*****	******	******	******	******	******	Nil	Nil	Nil	0*07 1*00	64'00 67'20	83:61 80:31
,	Hackergunge	Ruma		*****	495	*****		*44.000	552886	NII	5611	NI	0:48	87*00	89753
		Burnan!	1 .41.44	******	\$14 × 6 × 1	*****	*****	******	104040	NII NII	Nil Nil	Nil Nil Nil	0.84 0.44	72'04 78'21 80'09	7171 19'01 19'18

natement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 7th of March 1890 -wintd.

					R	AIWPALI				To	TAL.				
percention i	District.	Station.	Rarurday, 1st March.	Sanday, 2nd Marca.	Monday, 2rd March,	Tuesday, 6th March.	Wednesday, 5th March.	Thursday, 6th March.	Friday, 7th March.	Number of rates days.	Reinfall of	Total min- fall since int of month,	Average total rain- inil from tat of mouth.	Total rain- fall einer 15th May 1559.	rainfail from 15th May to date.
HENGAL		Gourneddi Bauphal	101990	10>400	#10048 #42040	*****	010000	*****	000000	Nd Nd	Nil Nil	Wal Wel	1 1	81.31 81.31	
	Noakholly	Nonkhelly Fenny Hariskpers Rameanj	0'29	011100 011100	******	000004 040-01 000000	007411 007411	******* ****** *******	000 o g o o o o o o o o o o o o o o o o	Nn Nu Nii	Nil 0 29 Nil Nil	0'29 Nii Nii	1.42	102:58 70:45 85:32 86:75	109 81 -100 83 P
	Furreedpore	Madai pore Purreedpore Gnaiundo	******* *******	000000 414 077	******* *******	011*** 01000 00000	003400 (24204	140 000 240 01 17	******* *******	Nil Nil Nil	Nil Nil Nil	NII NII	0.98 0.89	62:90 62:60; 88:0;	87:30 58:11 84:56
	Dacon	Munchigongo Dacca Naraingunge Manichtunge Joydebpore	**************************************	004100 004100 004100 004100	1010do 101440 001440 001440	00174	0°13 0°15	444.04 *********************************	017400 143014 505101 07744	Nil Nil Nil 1	Nil Nil Nil 0'18 0'18	Nil Nil 0-15 0-15	1'13 0'46 0'17 0'22 1	77'51 76'45 8:14 49 90 68'70	71'56 80'96 41'11 (51'40
	Hill Tipperal. Tipperals	Agartola Comitia Chandpore Brahmunbaria Ramekandra- pore.	******	020000 040000 040000 151100	001060 007100 007100 101000	******* ****** ******	0:31	0'12	000 va.c. 000 va.c. 11100- 000 vp.e. 800000	Nii Nii Nii	0'31 Nil Nil 0'12 Nil	0'81 Nil Nil 0'12 Nil "	0-91 0-33 0-77	64*4P 62:1/7 65:1/7 63:1/4 60*63	63 13 77 94 77 01 63 78
		Nasirnagar Dandhandi Kasha Lakaham	101111 000000 	1 c 3 c 400 0 0 0 c 10 0 0 c c c c c c c c c c c c c c c c c	614.00p 614.00p 1017.00 1017.00	000000 000000	000 E00 000 E00 000 E00	04000 09400 -4111	111100	NII NII NII NII	NII NII NII	NII NII MII NII	P P	82°30 63'73 62'44 69°49	?
•	Mymensingh	Kishoragunge Atia (Tangail- Mymensungh Jamalpore Suboraskhall; Durgapore Sherepore Tuess Decemgang	000000 00000 00000 00000 00000 00000 0000	0.08	000000	6,1000 -46,20 -6	498999 04880- 	110000 401000 12000 12000 12000 12000 12000	000000 000000 01000 01000 01000 00000 00000 00000	NII NII NII NII NII NII	NA OOS NA NA NA NA NA NA NA NA NA NA NA NA NA	NU D'08 NII NU NII NII NII	0.45 0.87 0.49 0.45 1	70'80 02'77 97 93 50'01 125'67 57'63 150 29 68'17 87'08	71'43 87'18 75'41 85'68 73'65
HORTE BROAL.	Pubus	Pubna	******	0.03	111141	411.00	0°16	0107 0103	******	9	0.53	0°23 0°08	0.30 0.30	80°43 60°59	86°08 84°25
	Bogra	Shorepore Nowkhilla Bogra Panchbibi	014 A00 042400 042400	******	00++++ 00++++ 700+00 10++4+	0.03	0'09 0'07	*****	60075× 0 4 vet 6017× 008 TOS	Nii 1	0°03 Nil 0°09 0°07	0:03 Nii 0:08 0:07	0.18 0.39 0.39	62:44 71:41 68:06	55'40 61'73 56'48
	Rajshshyo	Benuiesh Nattore Nangson Laipurs Monde	000 AO** 000 AO** 000 AO**	****** ****** ******	4 + + + + + + + + + + + + + + + + + + +	0'03	0.08	**************************************	*******	Nil Nil Nil	Nil O'08 Nil O'BS Nil	NII 0:09 NiI 0:08 NiI	0.10 0.19 1 1	46"34 58'93 57'87 36'75 46'27	53'88' 53'19 53'19
	Maidab	Maldah Chanchal Gajal Sibpanj	000 100 00-010 011 400 000 010	******	004069	0125	018	**************************************	******* ****** *******	Nil Nil	0'15 Nil Nil 0'75	0-18 Nil Nil 0-18	0°14 0°05 1	50*74 28*96 29*79 53*04	67:48
	Dinagepore	Mohadebpore Churamon Baigunge Dharepore Haisorghat Thakoorgaon	000000 000000 000000 000000 000000	00**** ****** ******* ******* ******	000403 000403 000403 004107	0.08	200000 Energy Sereph Marida Odrive	******* ******* ******* ******* ****	140100 140100 140100 140100	Nil Nil Nil Nil Nil	0.08 Nil Nil Nil Nil	NII NII NII NII	0°08 0°11 0°07 0 25 0°15	88:71 81:82 82:37 68:33 91:29 87:51	57:11 53:16 58:41 66:17 51:96
	Rangpore	Bhawanigunge (Gysbende).	0 > 5 1 0 1		010041	*****	******	445/61	1+1101	Nil	Nil	NH '	0134 14607	88:39	4 2 51
		Rungpero Eurigram Bagdogra (Nilphamari). Uliporo	000000	947 107 764 342 944 542	000000	010001	******	*****	******* *******	Nil Nil Nil	Nii Nii Nii	No No No	0.18	74°RS 91°01 88°40	75°81 73°80 85°85
	Jalpigotoo	Julpigoree Alipore Door Fallacotta Dehiganj Bhayatpore	000000 000000 000000 000000	010000 01010 00000 00000 00000 00000 00000	00000 00000 000000 000000	000 to 000	000000 000000 000000 000000 100000	000000 000001 000000 000000	000 ppq	NII NII NII NII NII	NII NII NII NII	Nu Nu Nu Nu Nu	0 29 P	183-68 119-88 128-23 90-94 189-23	117'17' P
	Coool Bahar Darjeeling Hill.	(Nagrabatta). Dinhata Ocoob Bebar. Michilgungo Matabhanga Bura Bulliguri Balliguri Larjeeling Kalimpeng Kurseeng	00 000 00 000 00 000 00 000 00 000 00 000 00 000	000000 000000 000000 000000 000000 00000	0000000 000000 000000 000000 000000 0000	coloco	**************************************	000000 000000 000000 000000 000000 00000	######################################	Nil Nil Nil Nil Nil Nil Nil Nil	NA NA NA NA NA NA NA NA	NO NO NO NO NO NO NO NO NO NO NO NO NO N	0°13 0°09 0°09 0°12 0°17 0°17 0°20 0°20	00°83 185°89 183'40 118'03 102'38 111'01 143'28 ,92'15 170'23	94'03 116'68 106'35 112'51 193'68 169'78 169'77 ,94'76
ACT BARAN		Kissengunge Arraresh Purnesh Gondwars Balarampere Mattari Kaliapanj Maddapore	50 001 201200 001100 002101 000101	100000 101000 000101 100000 100000 100000	800 100 500 000 500 000 500 000 500 000	000 000 000 000 000 000 000 000	0.05	000000 000000 000000 000000 000000	000100 000100 000100	NII NII NII NII NII	NA 005 Na Na Na Na Na Na Na	NII NII 0:03 NII NII NII	0-11 0-19 0-07	70-75 68-68	70°98 04240 06°33
	North Bhagul- pore.	Maddapore Scopool Preteigens	000000 000000 000000	000000	101000	******	0'10	00+104 1+1+1+	000 v00 000 007 000 000	Nib	0.10 0.10	0-10 0-10 Nil	0'17 9'12	67°36 88'16	40.00
	Darbhungs	Tajpore Durbhunga Madhubani Bakera Zoekera	000000 ******* 000000	000000 000000 000000	**************************************	000000 000000 000000 000000	0°07 0°13 0°05 0°13	941900 941900 941900	901000 900100 900000 400000	1 1 1 1 1 1 1	0°07 0°13 0°05 0°13 0°05	0°07 0°13 0°05 0°18 0°05	0'07 0'18 0'87	42.65 80.37 63.61 70.09	45°68 45°48 46°48
	Meantherpore	Mosufferpore Halipore Pare Makee	000000 000000 000000	400 000 000 000 001000 00000	000000 000000 000000 000000	002000 02000 02000	0°04 0°11 0°07 0°20	000000 000000 000000	000000 000000 000000 000000	1	0°04 0°11 0°07 0°30	0°06 0 11 0°07 0°20	0°36 0°18 0°11	68*46 68:58 66:60 87*80	45°05
		Sinker m.	000000 010000	91111	*****	0106	0-20 0-30	0.09	*****	8	0.20	0:36		68168	9

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 7th of March 1890—coneid,

	1				R	AIWPAL	lo a			Tor	AS.				
			407 01 pri	bug	E	#		oth	40	7	ő	Total rain-	Average total rate-	Total rain-	Avera rain(
Mateorelogical Division.	District.	Station.	March.	March. 2	Monday,	Tuesday.	Wednesday,	Thursday, March,	Priday.	Namber rainy days.	Rainfall week.	ist of month.	fall from let of mouth.	lath May 1880,	from Man date
NORTH BEHAR -concluded.	('humparuu	Motihari Hestish Repuks Burkurus	0 OH 00 P		******		0:19 0:11 0:11	0.03	******	1 1 1 2	0.15 0.15 0.15	0.15 0.18 0.18	0.88 0.51	78'88 82'd9 70 44 81'03	
	Sarun	Gopalgungo	*****	*****	******	0.14	0.12	******	******	2	0.39	0°25 0°14	0°04 0°04	35178 44143	
SOUTH BERAL	Shahabad	Chuprah Huzar Dehrus Hinbocah Sasseran	**************************************	ee	######################################	0°11 0°22	0°28 0°20 0°40 0°74 0°07	0.0h	107:00 407:00 117:00 47:00	1 2 2 1 2 1 1 1 1 1	0.11 0.80 0.30 0.40 0.85 0.0;	0:11 0:30 0:29 0:40 0:45 6:07 0:81	0.10 0.10 0.24 0.02 0.00 0.10	60193 47176 42 95 88156 81181 62180	3
	0	Mehaniah	000000	4.4114		1004	9*08	0.15	*****	2	0:20	0:20	0'04	25'62	
	Gya	Nowadah Jehanahad Arend Inaudungar Sharrghafi Mayadis PakriBarasan	000014 120006 00002 00002 00002	1101EV 1101EV 1201-11		6106	0.50	0.01	######################################	1 Nil Nil Nil	0:00 0:21 0:13 Nil 8:11 0:02 Nil	0.08 0.18 0.18 0.10 0.02 0.11	010	80 65 83 69 84 69 96 69 97 20 17 94 81 90	
	Patna	Patna Dinapore Rehar Harrh Burkram Hilso	**************************************	100096 100086 190099	1 039 EST ->>	00000	0.04 0.50 0.50 0.50	0.18	000 000 40110 20111 20110 40100	1 1 1 1 1 1	0:04 0:20 0:20 0:20 0:38	0:04 8:19 0:20 0:50 0:58	0:05 0:05 0:10 0:13	81°08 41°29 86'03 41'49 35'04	6
	Monghyr	Begomerai Menchyr . Jamus Gogri Sheikpura	00000000000000000000000000000000000000	11111	800.54	004 - 04 6 - 0 - 0 6 - 0 - 0 7 - 0 -	0.10	49 * 19 ¢ 11 20 0000 11 21 21 2000 12 22 24 24 200	**************************************	Nil Nil Nil Nil	0:00 Nil 0:10 Nil Nil	0:05 N:1 0:10 N:1 Perl	0:09 0:11 0:12 1 1	47'7a 41'77 59'55 60'10 43'31	40
	Aouth Bhagul- pors	Has ta Kolgong Bangson	105141	##1+#* ##1-#*		******	0 14	000100	040-6-	Nil Nil Nil	Nil 0:14 Nil Nil	Ni' Ni'	0:16	34 44 46°07	
	Sonthal Pergunnabs.	Rajmehal Godda Pakour Nya Doomka Deognur Jamtara Mahagawa Nanisai Nanisai	388.03 387.03 388.49 388.41 488.41	001388		-20 MPS -20 MPS -42 MP	6:07 6:30 6:15 6:06 6:26 6:1d	0.10	400 - 100 100 - 100	1 1 1 2 2 N(1	0°07 0°30 0°35 0°37 0°51 Ntl 1°00	0.07 0.30 0.15 0.16 0.37 0.51 Nil	0°16 0°12 0°12 0°22 0°22	89°97 49° 86 73° 76 56° 93 60° 77 65° 72 66° 81 86° 87	5 5
CRUTTA NAS-	Hanribagh	Pachamba			+4.00	*****	0.11	0 06	60× 60×	2	0.12	0°17	0.15	30-07	4
PUL.		Hazaribach Semtagurah Mahudi Hills Jhoomra Hills	48244	*****	100141	P0+=++	0.21	146694 640122	000000	Nil 1	NH 0'94	Nil 0:24	0°18 0°30 0°17 0 18	49°10 80°45	100
		Barki Chatra Karapdaka Ramghar	962-24 600-11 WDG 001	#21.00 #21.00	******	144-27	6.32 6.32	0.94 0.94	4401++ 44000+ 44000+	3 3	0.00 0.20 0.00	0°60 0°59		81°96 64'74 89'96	
	Loberduggs	Lohardugga Zanshi Palamow	## Pegs	6:30 6:13		0'41 0'12	0 N7	0°55 0°54 0°22	20- 000 422-00 241-00	3 6	1.83	1'09 1'83 0'43	0.11 0.01 0.01	46'33 85'44 84'80	1
), de	Silli Balumat Hosseingbad. Garuak	**************************************	*****	******	0.08	0.01	0°29	10000	2	0°08 0'29 0 48	0°03 0°20 0 46	1	44'00 20 22	
	Singbhoom «.	Chyebana Chakradhar- pore. Ghateille Baharapara	*** **	0°16 0°16	104,400	100.00	999 ×99	******	100000	1	0.12	0:10 0:15	0°87	46186 60 93	0
	Manbhoom	Purulia Gobindpore Raghunath-	*****	0.04		0 03	900159 e35950	0:53	810094 B17094	Nil Nil	0'88 0'53 Nil	6:88 10:53 Nil	0°28 0°17	43°00 33°72 46°91	
		pore. Barrabkeem Jhaids Chas	000000	000 ra r	02100-0	0.16	0.07	0:33	*****	1 8	6°36 0°40	0.14	1 9	64'46 B6'96	

Replanation.—Indicates that no rain has fallen. If the return for any day has not been ensived, the corresponding spaces is left blank. If any of the return for any day has not been ensived, the corresponding spaces in the total rainfall columns are left blank.

CALOGERA, the 11th March 1890.

SUMMARY OF THE METEUROLOGICAL AND BAINFALL OBSERVATIONS TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 7TH or MARCH 1890.

On March 1st, or the first day of the present week, the pressure changes over Bengal were of a decidedly variable nature, for a considerable rise had occurred over the whole of North Behar and part of North Bengal, while pressure was falling elsewhere; the full, too, was by distinctly irregular amounts, showing that conditions were becoming a little disturbed. Over the southern half of the province on this day winds were southerly, at some of the northern stations they were northerly, while at some of the central stations decidedly irregular winds prevailed. The changes of temperature were also marked, a rapid fall taking place in all distriets except Behar and Chutia Nagpur, where, on the other hand, there was a decided increas of temperature. These conditions were apparently sufficiently abnormal to produce a small series of nor'-westers, and several stations in South-West Bengal and the neighbouring districts reported rain on the morning of the 2nd. A rapid rise of pressure also took place on the 2nd, the increase averaging about six or seven-hundredths of an inch, and pressure became rather largely above the normal. On this day also an exceedingly rapid rise of temperature took place, the rise at several stations exceeding 7°. Wind directions became rather more westerly at the southern and more easterly at the northern stations, but the local storms practically ceased. On the 3rd there was a local fall of pressure over Orissa and part of South-West Bongal, but elsewhere pressure continued to rise moderately. On this day also a very West Bengal, but elsewhere pressure continued to rise moderately. On this day also a very rapid fall of temperature set in over the greater part of the province except in the extreme west, the fall in many cases ranging from 4° to 6°; the westerly element in the wind directions also rather strengthened, and though conditions on this day continued a little disturbed, there were practically no local storms. On the 4th the pressure changes were smaller than they had been for some days, though of a distinctly variable nature, and again rather large and variable temperature changes were reported. On the 4th there had also been a very decided change in the wind directions, and winds over the southern half of the province were blowing from almost opposite directions from those over the northern half of the province, damp southerly and south-westerly winds blowing at the southern and more or less northerly winds at the northern stations. This apparently at once set up disturbed conditions over the province and produced a series of local storms with rain, and on the morning of the 5th, rain was reported from almost all stations in Behar, while numerous local falls occurred in North Bengal, South-West Bengal, East Bengal, and Chutia Nagpur On the 5th there had been a rather rapid fall of pressure over the greater part of the province rather rapid fall of pressure over the greater part of the province, accompanied by a complete change in the wind systems blowing over the province, and on this day north-westerly winds were generally reported. A few local storms, however, again occurred on the evening of the 5th, and rain was reported on the morning of the 6th at several stations in South-West Bengal, South Behar, and Chutia Nagpur. The northerly wind current had again been driven back by the morning of the 6th, when westerly and south-westerly winds generally prevailed, but the pressure changes on this day were small, though there had been an extremely rapid fall of temperature, the fall ranging up to nearly 9° at some stations. On the 7th, pressure continued to fall moderately to rapidly, but temperature, on the other hand, began to increase. Winds were also generally more or less westerly over the whole province. During the last two days, however, conditions were more settled than they had been, and practically no local atorms occurred. It will therefore be seen that the meteorological changes during the week have been of a rather large and rapid description, particularly in the matter of temperature. The conditions during the week have also been rather more important than for some weeks past, from the fact that light rain has been fairly general over the whole province, and in South Behar and Chutia Nagpur in particular considerable amounts of rain have been received. Pressure.—The mean pressure has been above the normal in all districts, the excess usually

ranging from about four to seven hundredths of an inch. This excess pressure has been also

fairly equally distributed over the whole province.

Temperature.—The changes of temperature during the week have been very rapid, but the mean average temperature has been slightly below the normal, the defect for the whole province equalling about 0.7°. The largest defects have been registered in North Behar and Chutia Nagpur, where they equal from one to two degrees. The highest maximum tempera-Chutia Nagpur, where they equal from one to two degrees The highest maxim ture registered during the week was 96.4° at Cuttack on the 2nd and 6th instants.

ne actual temperatures during the week, the range from day to night, and their variation from their normal values, are seen in the following table, where the average maximum, minimum and mean temperatures at nine typical stations in different districts of the province are given, together with their normal values. It will be seen that the day temperatures have been very distinctly in defect, while the night or minimum temperatures have been almost normal:—

Table showing the excess or defect of the actual mean temperature from the normal for the week ending 7th March 1890.

	ALC: NO THE													
						Normal meen maximum tem- perature for the west ending 7th March.	Actual mean maximuse tem- perature for the week eading 7th March 1999.	Variation of actual mean from the normal.	Normal mean minimum tem- perature for the week anding 7th March.	Actual mean usinimum tem- persitive for the week cuding 7th March 1996.	Variation of actual mean from the normal.	Normal mean daily tempera- turn for the week ending 7th March.	Actual meets daily tempera- ture for the week ending 71h- March 1800.	Variation of scient man from the notices.
Outack Calcutta Liarca Burdwata Pana Gya Prirreak Hazaribagh Darjeeling	000 100 100 100 110 110 110 111	90" 110 100 200 401 400 400 400 400	004 101 104 0 3 0 0 6 105 105 105 105 105 105 105 105 105 105	000 000 000 000 000 000 000	094 00 00 000 000 000 000	9616 89 4 89 8 85 19 85 16 85 6 85 0 65 9	9518 8611 8710 8916 9313 85 6 961 8215	-348 -249 -114 -216 -40 -40 -25	70°3 66°4 65°3 64°9 89°1 02°6 87°5 60°0 43°8	76'8 66'6 64'8 61'9 60'6 62'0 85'9 85'9	0 -1'0 +0'7 +1'5 +0'8 -2'3 -0'2 -3'7	8816 8779 7678 7778 725 7411 725 725	82"1 76"4 75"7 77"8 72"0 74"8 60"6 71"1 46"4	-13 -15 -11 -03 -03 -18 -24 -16 -30

Rainfall—Has occurred in every district of the province; the falls have been very small in Orissa, East Bengal, and South Bengal, where they only average a few hundredths of an inch. They have been rather larger in South-West Bengal and North Behar, where they average a tenth of an inch. In South Behar the falls have been decidedly more general and heavier than in the other districts mentioned, and they average a fifth of an inch, the falls being generally largest in the Shahabad district. The largest falls have occurred in Chutia Nagpur, which has received an average amount of 0.57 inch, and in this division the falls have been heaviest in the Lohardugga and Manbhoom districts.

The following table gives the summary of the temperature and rainfall data of each of the seven metoorological divisions of the province for the week ending Friday, the 7th of March 1890:—

			TEMP	BATU	2.0					B	ATTE	This.				
	g week.	g week.	Avern	jeu fot	work.	above or	4	N Wes	il.	B	day di	ys.		e ist		164b 1889.
HSTEOROLOGICAL Devisions.	Highest observed during	Lowest observed during	Of highest of each day.	Of lower of each day.	Of mean for each day.	Average mean of wrest below normal mean of	Average.	Mormal average.	Variables.	Average dumber in	Normal everage num-	Variation.	Average.	Hermal average.	Average.	Bortnal average,
Oriana	96'4	63:6	87%	60-7	78'8	-0°s	0106	079	-074	918	016	~-0"8	angs.	-0*10	68.30	Derma
louth-West Bengs!	943	84'8	207	65'7	789	016	010	0186	-0-26	0.0	07	-01	D.10	0'26	1891	83-30
Bast Bongal	91'1	81'3	85'6	647	78'8	+0'8	0104	0100	-6164	012	110	-0°8	0.04	0168	76'64	75:00
Forth Bengal	90'1	9910	88'7	57'6	71'8	-0.2	0108	0*20	-0'17	0'6	0.2	-01	0.03	8190	78167	71:90
North Bohar	8719	40-0"	19:31	00.90	60%*	-2'0"	8150	0'14	-0'00	8'9	018	+0%	010	0:14	60E-00	40:01
South Bohar	9114	8818	8512	61.3	73'9	-01	0100	9'34	+0186	118	016	+819	0100	0736	106185	-
Oratio Wagpur	07*8*	57:00	877°	104"	79:50	-140	0'57	(0/00	+0'37	278	0%	+173	0187	0700	100.705	80144

• Durbhanes and Chycheses not included.

MSTEOROLOGICAL OFFICE, BENGAL;
The 11th March 1890.

A. PEDLER,
Meteorological Reporter to the Goot, of Bengal.

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Results of the Meteorological Observations taken at the Alipore Observatory from 2nd to 8th March 1890.

			6	barometer		Tempe	RATURE	l.		Branor	LETRY.		WIND.			
Month.	Date	Maximum in sun.	Number of bours bright sunshine.	Moan pressure baro at 32° Fahr.	Mean.	Marimum	Range	Mintmum.	Moan wet bails.	Vapour tension.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.	Rain.	WEATHER.
1890.		0		Inches.	0	0	0	0	0	Inches	0	%			Inches.	
March	2nd	137-8	0.7	29 956	76.9	88-6	15-3	68-3	68-6	0.602	64.2	68	NNW and variable	121	0.03	Chiefly cloudy,
D	3rd	140 5	9.1	-961	75-8	87.5	28.7	63.8	69 -4	-684	65:7	73	88W and 8W by W	63	Nil	Partially cloudy
17	4th	144.0	5.8	-963	78:3	88 7	19-8	68-9	70.8	-656	66 7	70	SW by W, SW and SSW.	99	12	Chieffy cloudy
81	bth	141.9	5.0	-961	76.8	84.2	14.3	70-2	67-8	-561	62-2	62	W by S and variable	101	-	Chiafly cloudy.
	Øth	142-4	D-4	989	76 6	85 5	189	66 6	66.9	-531	60.6	60	NNW and WNW	95	**	Partially cloudy
	70h	143.5	6.2	902	75-9	85-9	20:3	65-6	65 5	-496	58.7	59	WSW and WNW	59	71	Chiefly cloudy
-1	8th	146.5	7-0	-893	75-9	88-6	25.8	63.3	68-6	1802	64-2	68	SSW and SW	128	29	Partially cloudy

mean pressure of the seven days average pressure of the corresponding period for 24 y total number of hours of bright sunshine maximum possible number of hours of sunshine mean temperature of the seven days average temperature of the corresponding period for extreme variation of temperature maximum temperature highest velocity of the wind in one hour highest pressure of wind on one square foot mean relative humidity	 	• • • •	29:939 29:845 Hours 44:4 82:2 O 76:5 77:9 25:4 88:7
total number of hours of bright sunshine maximum possible number of hours of sunshine mean temperature of the seven days average temperature of the corresponding period for extreme variation of temperature maximum temperature highest velocity of the wind in one hour highest pressure of wind on one square foot	24 years, SG.		Hours 44 4 82·2 0 76·5 77·9 25·4 88·7
mean temperature of the seven days average temperature of the corresponding period for extreme variation of temperature maximum temperature highest velocity of the wind in one hour highest pressure of wind on one square foot	24 years, SG.	.'s Office	44 4 82·2 O 76·5 77·9 25·4 88·7
mean temperature of the seven days average temperature of the corresponding period for extreme variation of temperature maximum temperature highest velocity of the wind in one hour highest pressure of wind on one square foot	24 years, SG.	.'s Office	82·2 O 76·5 77·9 25·4 88·7
mean temperature of the seven days average temperature of the corresponding period for extreme variation of temperature maximum temperature highest velocity of the wind in one hour highest pressure of wind on one square foot	24 years, SG.	.'s Office	O 76·5 77·9 25·4 88·7
average temperature of the corresponding period for extreme variation of temperature	***	's Office	76·5 77·9 25·4 88·7
average temperature of the corresponding period for extreme variation of temperature	***	's Office	77·9 25·4 88·7
average temperature of the corresponding period for extreme variation of temperature	***		25·4 88·7
extreme variation of temperature	***		25·4 88·7
highest velocity of the wind in one hour highest pressure of wind on one square foot		0.0 0	88.7
highest velocity of the wind in one hour highest pressure of wind on one square foot			2011
highest pressure of wind on one square foot			Miles,
highest pressure of wind on one square foot		0.00	13
			Ibs.
		Not mea	surable.
mean relative humidity			0/
		× 0 g	66
average relative humidity of the corresponding period	d for 24 years		00
flice	d tot of Journ,		68
MO9	6 0 D	- 0 0	
			Inches.
total fall of rain from 2nd to 8th March 1890		0 % Ø	0.03
average fall of the corresponding period for 24 years,	8G.'s Office		0.69
total fall from 1st January to 8th March 1890		100	0.40
average fall of the corresponding period for 24 years,	SG.'s Office		2.18

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph, and from observations made at 6h, 10h, 16h, and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet Rew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No 86, formerly

at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o overcast, d drissling rain, a dew, = fog.

Q. LITTIE,

For Meteorological Reporter to the Goot. of India.

METROBOLOGICAL OFFICE, GOVT. OF INDIA; Calcutta, the 10th March 1840.

MEMORANDUM.

The chief incidents in connection with the vital statistics of the principal Municipalities in Bengal for the week ending 22nd February 1890, are the following:—

1. The ratio of births during the period above mentioned stood at 20 6, and that of deaths at 22.2 per 1,000 of population, the record of the preceding week ending 15th February presenting 21.7 and 24.1 per 1,000, respectively, indicating a diminution in the registration of both the events.

2. The highest proportions of births and deaths were returned from the following Municipalities:—

Municipalities:-

		Births.						Deaths.		
				Ratio per millo,						Ratio per
Rampore Bea	uleah	940	400	47.3	1	Poori	000	900		119.6
Durbhanga	0 1 2			38.5	-	Comillah		141	0 = =	63.0
Serampore	9 0 9	0 0 0	4 + 5	35.3		Jessore		1 9 4	* * 4	42°H
Comillah	00.0	+ 4.4		34.7		Gya	111	0 + 0	4.6.4	4013
						Serampore	100	1.0 +		35.3

3. In comparison with the results of the preceding week, there were no marked differences in the casualty-rates from any of the diseases specified in the table appended to this memorandum—ride figures given below:—

					PUR		the weeks ending-
					22	nd February 1890.	15th Fourtary 1890.
Cholera	0.0.0				100	2.6	9.1
Small-pox	9.84	* * *		* # *	100	1.1	*R
Fever	+ + +		* * *	* * *	1 10 1	8.1	9.1
Bowel-compla	ints			***	7 4 4	2.9	8.4
Injury			*4.6		4.6.4	.2	.22
Other causes			оп.	8 0 >	v » A	6.3	7.2

4. Of the death-causes named above, cholera, fever, bowel-complaints and the maladies coming under the head of "Other causes" proved conspicuously fatal in the following Municipalities, and small-pox continued to rage with virulence only in the Poori town, yielding a death-rate of as much as 35.6 per 1,000 of population:—

Cholera.			Fe	ver.		Bowel	-001	nplain	ts. Othe.	r causes.	
	1	Rutio per mille.			Ratio po mille.	r	1	itatio per milia.		1	latic per mille,
Poori Comillah Narainganj Gya Monghyr Howrah Durbhanga	0 0 0 0 0 0 0 0 0 0 0 0	25·2 19·3 16·6 7·5 8·6 3·4	Jessore Comillah	111	42.4 23.1	Scrampore Poori	144	13·7 12·6	Poori Serampore Bhagulpore Gya	044 	29:4 16:7 14:6 11:6

5. The death-rates under the heads of Sex, Class and Age stood as follows:-

According to Sex	According t	o Class.	According to	Age.
Males Females Ratio of male deaths to every 100 female deaths, calculated on the propertion such mortality bears to the total male and female population	Christians Hindus Mahomedans	Batio per mille 14:9 28:3 19:8	Under 1 year 1 and under 5 year 6 10 10 15 20 20 30 30 40 40 50 60 60 60 years and upwards	9.9 8.6 12.8 15.0 16.9 18.8

W. H. GREGG, Dip. Publ. Health, Camb.,

The 10th March 1890.

Sanitary Commissioner for Benga'.

							1			1		_					ı			KOE	MORTALITY		ACCORDING		TO-						
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Uniter-Secy, to the Goot, of Bengal.

FUBLIC WORKS DEPARTMENT, - BENGAL. IRRIGATION BRANCH.

IRRIGATION OPERATIONS FOR THE OPPICIAL YEAR 1889-90.

Areas leased for irrigation up to the end of December 1889.

		SERVED CO.						30 days dis.	charring.			Less than the owner, on the texts to the texts	celled during			
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,egj11	idətib	flat betam.teX	1,380 Smi	776 31.067 312.42	A STATES	-		1,611	7-1 3-1 1-2			4,342 1,256 8,000 1,400				-
		Carrel.	Taldunda, he reach	Machpong Kendrapara Golen	Faramental flart forel, Range 1 Petto, date 11	Total	Total of the corresponding period of last year	Midnaporn	Panelikowrah Tidal reaches, Range- I.II	Total	Total of the certification percent of last year	Western Main	Total	Total of the corresponding	Grand Total	dinni Trial of the care.
		District.	-	Cuttack	Balasore			Widneporo (Howrah			Shahabad S				
		Charle			Ohinsa			SOTTER BOOK				Sossa				

Carcuita, The 10th March 1880.

CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 8th March 1890, as compared with the corresponding week of the previous year.

				ning Satred n March 1890.		WEEE EN	DING SATIRD II MARCHAIS	P.
SATURS	OF CARGO.		Number of boats.	Weight of	Tollago.	Number of	Weight of cargo.	Tollage.
and the second s			No.	Mds.	Rs.	No.	Mds.	Rn.
Rice and paddy Jute Firewood Other articles	## 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20 t	1,586 100 123 1,084	8,30,800 80,150 71,685 2,79,490	5,550 1,400 1193 4 887	898 78 190 1,106	2,90,550 57,200 51,785 2,88,640	1,020 1,005 720 4,627
	Total	144	2,893	7.62.131	12,269	2,102	6,27,076	10,273

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 1st March 1890, on 1,5261 miles open

	COACHING	TRAFFIC.	MERCHANDIBE TRAP		Other earnings			TRAIN-MIL	
	Number of passongure.	Recogsts.	Weight oarried,	Receipts.	(estimated).	Total saruings,	Conching.	Merchan- dise.	Total,
		Rs. A. P.	Mos. s.	Bu. A. P.	Rs. A. P.	Re. A. P.			
Total traffic for the week Or per mile of railway	255,021	2,93,999 1 0° 192 10 10	20,00,201 10	0,84,901 1 0 449 0 1	21,189 14 0 III 14 8	10,00,079 0 0 655 9 2	66,567	08,634}	164,881]
Par previous 8 weeks of half-	2,000,011	22,96,368 13 0	1,09,27,130 10	45,64,903 12 0	1,51,824 11 0	70,15,59\$ 4 0	514,723	050,145	1,204,861
Tutal for 9 weeks	2,201,680	25,00,203 14 0	2,27,33,424 20	52,49,864 13 0	1,75,514 9 0	80,16,078 4 to	Bes (1, (1+2)	785,780	1,360,749
COMPARISON.		,	1						
Potal for corresponding week of previous year Per mile of railway correspond- ing week of previous year	2 6,464	3,48,968 5 9 . 255 6 ?	28,36,681 10	6,30,220 2 0 413 2 1	16,010 2 11 11 1 4	10,06,127 10 A	67,549	97,762	166,311
Total to corresponding date of previous year	2,293,442}	26,68,676 2 1	2,44,49,117 0	55,18,183 4 0	1,36,306 4 2	82,40,103 10 3	842,002	663,696	1,640,425

[.] The decrease in concluse traffic is due to carnings for the corresponding period of 1880 having included receipts on account of "Shelm Ratti mela.

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works

Department Circular No. XXI, Railway, dated 28rd July 1883.

	FOR WEEK MARCH 161			re por wher March 1890			RECEIPTS PRO PRIL 1888 TO 21 MARCH 1889.		A.	RECEIPTS PROPERTY IN THE PROPE		Total	Tutal
Hean pileage rorked.	Receipts.	l'er mile worked.	Mean mileage worked.	Recorpts.	For mile worked.	Mean milenge worked.	Total recoipta.		Menn mileago worked.	Total recespia.	Pier mile worked per week.	increase in	1690.
	Ra.	Ба		Ra.	Re.	1.5251	€s 4,07,82,591	Ma.	1.5252	8a. 4,05,32,156	Ra.	Bu.	Es.

PATNA-GYA STATE RAILWAY

Approximate Return of Traffic for weak enried 1st March 1890, on 574 miles open.

	COACHERS	THAPPI	С.	MERCRANIISE TRAI	PIC MINSHAL		Totalearnings.	TRAPPIC 1	PRATU-MILE	s aus.
	Number of passengers.	Rodes	Drv	Weight carried.	Receipts.	(entimeteri),	Other Harmings.	Conching.	Merchan- dise.	Total.
		En.	A.P.	Man. n.	Ro. A. P.	Rn. A, P.	Ha. A. P.		1	
or traffic for the week	19,345	8,361 111	13 0 *8 6	20,735 0 649 10	8,561 15 0 61 13 6	45 11 G 0 12 8	8,070 7 6 156 13 8	1,806	630	2,486
yndf es ee de ee te	96,709	52,779	9 0	2,78,744 0	18,539 9 0	382 9 0	71,701 11 0	13,500	5,102	15,901
Total for 9 weeks	100,118	10,141	6 0	3,15,479 6	91,101 h 0	420 4 0	B+,672 2 0	18,406	8 902	51,857
Comparisor,										
sulfor corresponding week of previous year or mile of rullway correspond-	36,491	9,497	2 0	\$1,795 30	1,592 1 0	58 5 9	11,147 8 9	1,900	41834	2,894
ing week of previous vent	28h	166	0 0	433 20	27 13 6	1 0 4	194 14 2	*****		###Qq1
blazinin kart	115,767	62,714	1 8	2,86.815 20	16,752 2 0	838 14 9	79,781 2 5	10,769	4,762	21,650

Approximate Statement of green receipts of the Patna-Gya State Railway, prepared in accordance with Public Works

Department Circular No. XXI, Railway, duted 23rd July 1883.

RECRIPT EN	и ков меч п мунен 18	e estena Su.		I MARCH 186			L RECEIPTS FOR PAIL 1888 To 2 MARCH 1889		AF	BECRIPTS PRO BL 1880 TO 14 MARGH 1890.		Total	Total
H-an monte	Receipts.	Par mile worked	donn milenge werked	Receipts.	mile	Menn miimso vergos	'Potal reculpta.	Per mile worked per week.	Mean mileuge worked.	Total recorpts	Per mole worked per ucok.	increase in 1890.	decrease t
,	Ra.	Ra.		Ru.	Ru,		Rs.	Ro.		Rs.	Ru.	Rs.	Re.
\$71	11,149	195	571	8,920	157	57}	1,47,540	163	571	4,62,764	100	18,254	80*704

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 1st March 1890, on 22; miles open.

	Coaciting	TRAFFIC.	MERCHANDINE C	ND MINERAL	Other carnings	Total		TRAIN-MIL	RS RTH.
	Number of passengers.	Receipts.	Weight carried.	Receipts.	(catimated).	carmigs.	Conclume.	Merchan- diso.	Total.
		Ra. a. r.	Mon. s.	Ha. A. P.	RE. A. P.	Rs. A. T.			
wittnii for the week best mile of milway be previous 8 weeks of half-	20,030	5,159 12 0 231 0 0	10,681 30	597 12 0 26 6 5	7 0 0	5,734 8 0 267 11 8	N76	0.84	1,000
Just	162,626	40,210 15 0	1,03,248 0	3,574 2 D	55 1 u	43,843 2 8	6,997	585	7,562
Total for 9 weeks	182,056	45,78# 11 0	1,10,032 Sn	4,161 14 0	62 1 0	49,570 10 0	7.871	757	8,658
COMPARISON.									
mai for corresponding week of present car railway correspond-	35,705}	10,140 13 0	11,180 Bo	400 15 0	0 2 0	10,553 14 0	1,163	70	1,272
that to corresponding thate of		405 12 3	*****	18 4 8	0 6 6	474 5 4			111804
previous year	196,468	51,000 0 9	85,603 20	3,002 12 0	68 3 9	54.001 o 0	8,107	588	8,600

Approximate Statement of gross receipts of the Turkessur Branch Ruilway, prepared in accordance with Public Works.

Department Circular No XXI, Railway, dated 23rd July 1883.

liggipy 23	D MARGIL 188	h. Rudiko	RECEIT	TS FOR WEEL	K ENDIKO		RECEIPTS PR PRIL 1888 TO S MARCH 1889.			L PECEUTA PR AVRIL 1889 TO MARCH 1890.		Total	
dimn - 271 - 28 H	Receipin.	Per mile worked.	Monn ofleage worked	Receipts	Per mile worked	Menn milonso worked.	Total receipts.		Mean nuleaga worked.	Total receipts.	Per mile worked - P. r. Week.	1 court	Total decrease in 1800.
	Ra	Ru.		Ro.	Re.		Es.	Ro.		Re.	Rs.	Rs.	Rs
20	10,554	474	22)	5,758	988	281	2,60,943	\$41	224	2,83,280	237	# \$0.05.	7,098.

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K. AND D., AND ASSAM-BRHAR SECTIONS.) Approximate Keturn of Traffic for week ended 22nd February 1890, on 747 miles open.

_ '	COACHING	TRAPP	IC.		MERCHARI		PPIC.	NEAL	Other ea	sted	1	Toli	n) ·	TRAPPIC	TRAIN-MILE	en mern
	Number of passengers.	Conulti			Woight carried.		Becely	itn.	steam-l			6aPill	1gu.	Coaching.	Marchan- disc.	Tota
		Re.	▲.	P.	Mps.	6	Ra.	A. P.	Ra.		90	ita.	A. P.			
traffic for the week	141,650 1+0	79,740 107			6,68,390 761	0	99,150 133	0 0	15,570	0	0	1,93,440 241	0 0	25,175	20,578	40/3
year	1,080,160	B,36,570	0	0	41,48,980	0	8,70,110	0 0	1,19,600	0	0	10,84,840	0 0	151,411	100,940	373,5
Total for 8 weeks	1,201,610	6,14,810	0	0	47,10,370	0	9,69,260	0 0	1,52,250	0	0	17,15,800	0 0	174,684	248 515	423,0
otal for corresponding week of previous year er mile of railway correspond-	a154,634	1,11,880	0	0	8,34,053	0	80,839	0 0	17,520		D	2,10,320		23,460	23,613	46,6
ing period of previous year	230	1:00	- ()	0	770	Û	120	0 0	*1	0	0	287	0 0	150761	******	*****
otal to corresponding date of	1,141,690	6,26,307	0	()	35,85,990	D	7,46,482	0 0	1,28,871	0	0	15,01,840	0 11	170,620	205,554	376

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

	TO POB WEEK			TS POR WERE		A 1	L RECEIPTS PR PRIL 1888 TO 23 FEBRUARY 1881	HD	A1	RECEIPTS PRO PRIL 1889 TO 22 PRECERT 1890.	NI	Total	Tota
Mean mileage worked.	Receipts.	Par mile worked.	Henn mileage worked.	Receipts.	Per mile worked,	Monn mHrage worked.	Fotal receipts.		Mean culeage worked.	Potal receipts.	rer mile worked per week,	1889-90.	dioreme la 1666-64
	Ro.	Rn.		Ra.	Ro		Ra.	Rs.		Ra.	Re.	Ra.	Ns.
673	2,10,820	312	747	1,91,440	256	673	97,48,740	208	n 027	*1,04,80,950	207	7,37,131	- 11

^{*} Audited up to week ending 31st Documber 1889.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week onded 22nd February 1890, on 125 miles open.

	прасніко	THAPPI	С.		MERCHANI		AND MI	R 36 3	LAL				1			1	TRAIN-MIL	dig dit
	Number of passengers.	Concell			Weight carried.		Recets	3E e.		Other ea (estima			Tol estri		6 -	Concling.	Merchan-	! To
		Re.	A. :	P.	M DB.	n.	Ra.	A .	r.	Ba.	Δ.	. F.	Ra,	Á	. P.	1		
Cotal traffic for the week Or per mile of railway For previous 7 weeks of half-	26,660 215	0,884) 70	0	0	41,080 419		3,660 £k	0		80	0	ψ ()	13,210		0		1,050	5
7007	186,290	70,670	0	0	2,12,860	h	16,670	61	()	820	Đ	0	80,000	()	0	24,650	12,734	36
Total for 8 weeks	218,150	80,460	0	0	2,73,940	4)	\$2,180	tı	0	Bish	0	U	1,03,150	- U	12	28,286	34,674	41
COMPARISON.																1		I
otal for corresponding week of previous year	28,614	12,150	0	0	02,705	0	2,970	0	0	35	t)	fi	18,155	0	0	8,763	1,937	5
ing period of provious year]	229	97	0	0	602	-	24	0	0	10000			121	0	0		\$54.60°	
otal to corresponding date of	215,080	77.513	0	0	\$,99,867	0	19,247	0	0	3,559	0	Đ.	1,00,319	0	0	28,890	14,949	43

FINANCIAL YEAR.

Approximate Statement of gross recoipts of the Bengal Central Railway.

	PRESIDENT I			PREBUGARY 1		APRIL :	it anoniprofpa: 1858 to Elais Pa 1889,	PRIARY	APRIL	L RECRIPTS PRO 1889 TO 22KD Pa 1880	Total	Tol	
Mean sivage srand	Receipts.	Per mile worked.	Mean mileage worked	Receipts.	Per mile worked,	Mean milease worked	Total reosipta.	Por mile worked per week,	Mean mileage worsed.	Total receipts.	Per mile worked per week	1969-90.	Janh.
1	Ra.	Ra.	16	Rs.	84.		Re,	Re.		Ba.	Rs.	Ro.	R
125	15,155	121	125	13,520	108	128	6,40,474	110	125	*0,62,631	113	10,157	

^{*} Audited up to week ending 31st December 1889."

^{*} Excinduse steamer carnings.
a Due to Mohotshob at Nobodd p and development of fish traffic.

DACCA STATE BAILWAY.

Approximate Return of Traffic for week onded 22nd February 1890, on 86 miles open.

	COACHING TRAFFIC.			MERCHANDISE AND MINERAL TRAPPIC.				Other carnings			Total			TRAPFIC TRAIN-MILES BUS.				
- 2.5	Number of passengers.				Weight carried.		Receipts.			(estimated),			carnings,			Coaching.	Merchan-	Total.
		Ro.	A. 3	a ·	Mps.	D.	Ra.	Α,	Р.	Bn.	Δ.	P.	Ra.	A.	P.			
lotal traffic for the week Or per talle of railway For previous 7 weeks of half	10,500 193	7,520 67	0		23,600 274	0	2,810 27			100 12		n O	023,0I 011			2,450	704	3,194
hot bearings a mean of man-	109,030	41,120	0	0	2,09,660	0	21,050	0	0	1,390	0	0	69,560	Ü	-0	16,970	6,704	27 HUT
Total for 8 weeks	126,490	45,610	0	(E	2,33,250	0	25,460	0	0	1,580	Ü	0	70,580	0	0	1-,774	41,40%	25,186
Total for corresponding period of previous year Por mile of railway corresponding period of previous year Total to corresponding date of previous year	16,870 161	5,346 02 36,920	0	Q	11,696 156 92,669	0	673 10 0,005	0	0	116 2 1,365	0	0	6,943 74 47,885	0	0		5,101	5,379 24,379

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Ducea State Railway.

Rucuiri 23ab	re por where	ENDING	RECEIPT	FEBRUARY	ENDING 1890.	TOTAL APRIL 1	. RECEIPTMEND 898 TO 23ED FEI 1859.	M 1st BULET	Toral APRIL	L meculting 1 ag 1889 to 22nd F1 1890.	TEL MC	Total	Total
Hean Edenge Earked.	Receipts.	Per mile worked.	Menn mileage worked.	Receipts.	l'er mile worked.	Mean mileage worked.	Total receipts.	For mile worked per week.	Mean mileage worked,	Total receipts	mile worked per week.	increase in 1889-00.	decrease to 1989-90.
	Re.	Ba.		Ra.	Re.		Rs.	Rs		Rs.	Ru.	Ro.	Rs.
B1	0,543	7.6	86	10,020	116	50)	2,71,302	67	86	*3,54,534	541	98x476	91.444

^{2 .} Audited up to week ending Sist December 1889.

Approximate Return of Traffic for the week ending 1st March 1890, on 27; miles open.

NALHATI STATE RAILWAY.

1	COACHING TRAFFIC.			MERCHANDISE AND MINERAL TRAVPIC.				Other earnings		Total			TRAFFIC TRAIN-MILES RUS.				
	Number of pussungers.	Conch			Weight carried.	Receip	oln.	ø	(estimated).		eagnings.			Coaching.	Merchan-	Total.	
		Re.	A. 1	r.	Mos. s.	Rn.	Α.	r.	Rs.	A	P.	22 P.	Α.	P.			
lots treme for the week	3,695	1,248 46		0	13,244 0 480 0	786 29		0	33 1	0	Ü i	2,070		0	500	254	763
For provious 7 weeks of half-	24,680	8,499	n	a l	1,02,042 0	6,687	0	0	880	0	0	.15,915	0	0.	3,854	3,964	7,638
Total for 8 weeks	24,200	10,146	0	Į.	1 15,880 0	7,800	0	t)	(13	D	(1	17,401	0	()	4,863	4,218	8,681
COMPANISON.											- 1						
loal for corresponding week	4,663	1,031	0	0	10,334 _0	875 675	0	0	20		0	1,535	()	()	509	472	180
the work of provious year	171	60	0	0	379 0	21	0	0	- 1	0	(1	92	D	0	447.141	P\$1 nps	
total to curresponding date of	29,903	11,105	0	ú	1,31,484 0	7,301	0	0	151	()	0	18,627	Ð	. 0	4,435	4,748	9,179

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

	to you want to		RECEIP 1s	TS FOR WHEN T MARCH 1800.	ENDING		L ENCRIPTS FRO PHIL 1888 TO EN MARCH 1889.			L ENCRIPTS PROPRIET ISSUED AMARCH 1800.	Total	Total	
Mean microsic withed.	Beceipts.	Per mile	Mean mileage worked.	Receipts.	Fer mile worked.	Monn milosgo worked.	Total receipts.	Per mile worked per week.	Menn milengo worked.	Total receipts.	Ter mile worked per week.	lapp.	decrease in 1559-90,
274	Ra. 2,233	Rs.	278	Re. 2,076	Ra. Rs. 76 278 93,888		Rs. 93,868	Ra.	27 }	Rs. 93,002	Hs. 73	Ra, 84	La.

TIRHOOT STATE BAILWAY.

Approximate Return of Traffic for the week ending let March 1890, on 273 miles open.

	Coachine	TRAFF!	c.	MERCHARIN	15fl .	AND MII	I II R	AL			Total	. 1		TRAFFIC TRAIN-MILES BOW.				
174	Number of passengers.	Conchi		Weight carried.		Recorpts.		(ostima		ournings.			Morrhan-	Total				
		Ra.	A. P.	Mps.	8	Ba.	Δ,	P.	Rs.	A. P.	Ra.	٨.	P.		•			
Potal traffic for the week	47,319 178	13,644 gs	0 0	2,95 677	0	81,204 115	0	0	3,519 8	0 0	53,456 196	0	000	5,924	P,481	15,843		
Or per mile of ratively. For previous ? weeks of half-		1,63,706	0 0	20,39,838	0	2,81,234	D	0	81,084	0 0	6,29,024	0	0	43,633	73,010	117,543		
Total for 8 walts	428,159	1,92,350	0 0	23,24,345	0	8,65,529	0	0	54,602	0 0	4,82,190	0	D	40,557	63,981	102,584		
COMPARISON.																		
Total for corresponding week of previous year	40,707	18,196	0 0	1,88,183	0	13,268	0	0	2,697	0 0	81,871	0	0	8,541	6,970	11,680		
Per mile of railway correspond-	149	55	0 0	806	0	40	0	0	1	0 0	105	0	00		approx	84754		
Total to corresponding date of	385,268	1,88,149	0 0	12,12,904	0	1,18,968	0	0	27,152	0 0	2,76,583	0	0	40,270.	80,093	609,963		

[·] Steam-boat earnings excluded in calculating "Total carnings per mile of Railway."

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirkent State Railway.

RECEIP 2x	to von weer d Manch 1866	HEDINO.	RECEIPT	rs vor week 1 March 189	ENDING	TOTAL	PRIL 1885 TO 2: MARCH 1889.	M 167		PRIL 1880 To 1 MARCH 1890,	Total	Total	
Monn , mileage	Recorpts.	Per mile worked.	Mean mileage worked.	Localpia.	Per mile worked.	Mean worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.		Fer mile worked per week.	increase in 1889-90.	1889-99,
	Ra	Re.		Re.	Re.		Ba.	Ro.		Ba.	80.	Ba.	Re
873	81,871	115	273	83,456	196	865'35	15,25,066	125	273	19,00,416	*, 157	4,41,850	opposit ,



SUPPLEMENT TO

The Calcutta Gazette.

WEDNESDAY, MARCH 19, 1890.

OFFICIAL PAPERS.

Non-Subscribers to the GLERTE may receive the Supplement separately on payment of Six Bups per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.

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ABSTRACT of the Proceedings of the Council of the Lieutenant-Governor of Hougal, assembled for the purpose of staking Laws and Regulations under the provisions of the Act of Parliament 34 and 25 Vio., Cap. 97 Exhibition to be held in Jamaina in the year 180T Proposal for the construction of water-works at Nasirabad for the supply of diterior water to the inhabitants of the Lewis Raunfall, Weather, and State and Prospects of the Oropa Santoment's showing the Quantities of the Principal Suples of Trailic imported and expected into Calcutta from the interior during the smooth of December 1888 Meteorological Report of the Province of Reagal for the week ending Friday the 18th of March 1890. Estement of Raunfall in Hennal for the week ending Friday the 18th of March 1890. Estement taken at the Relectorological Office, Chowstighes, from 9th to 18th March 1890.		BRECLYS of the Meteorological Observations taken at she Alipore Observatory from 9th to 10th March 1890	715 715 716 717

Abstract of the Proceedings of the Council of the Lieutenant-Governor of Bengal, assembled for the purpose of making Laws and Regulations under the provisions of the Act of Parliament 24 and 25 Vic., Cap. 67.

THE Council met at the Council Chamber on Saturday, the 1st March, 1890.

Bresent:

The Hon'ble Sir Steuart Colvin Bayley, K.C.S.I., C.I.E., Lieutenant-Governor of Bengal, presiding.
The Hon'ble Sir Charles Paul, R.C.I.E., Advocate-General.

The Hon'ble F. B. Peacock.
The Hon'ble P. Nolan.
The Hon'ble T. T. Allen.

The Hon'ble Ste Henry Harrison, ET.

The Hon'ble Sir Alfred Croft, E.C.I.E.

The Hon'ble Dr. Mahendra Lal Sircar, C.I.E.

The Hon'BLE C. H. MOORE.

The Hon'BLE H. PRATT.

The Hon'ble Shahzada Mahommed Furbokh Shah.

The Hon'ble Dr. Rash Behary GHOSE.

CALCUTTA PORT BILL.

The Hon'ble Sir Henry Harrison moved that the clauses of the Bill to consolidate and amend the law relating to the Port of Calcutta, and to the appointment of Commissioners for the said Port, be further considered for settlement in the form recommended by the Select Committee.

The Motion was put and agreed to.

The Hon'ble SIR HENRY HARRISON also moved for leave to withdraw the motion which he had laid before the Council at the last meeting, namely, that the following proviso be added to section 96 of the Bill:—

Provided that any order made and published under this section which shall have the effect of rendering it unlawful to land or ship any goods out of, or into, any wharf, quay, stage, jetty or pier made by any private person for the convenience of private traffic shall entitle the owner thereof to sue for compensation, and to recover the same compensation, if any, that he would have been entitled to sue for and recover had the wharf, quay, stage, jetty or pier been removed, filled up, or destroyed under the provisions of section eighty-five.

He said:—"As the discussion will take place on the wording of the new clause on the notice paper, I shall say very little in asking His Honour the President to put this motion to the Council. Following the course of the last discussion, and acting also upon a concession made by my hon'ble friend Mr. Moore, I askleave to withdraw the amendment then proposed, in order to embody in a revised amendment the concession which has been made as well as a suggestion thrown out by the hon'ble and learned Advocate-General. For this reason, it would be better if the former amendment be allowed to be withdrawn, and the opinion of the Council taken upon the revised amendment."

The Motion was put and agreed to.

The Hon'ble Sir Henry Harrison then moved that, in line-14 of section 96 of the Bill, after the word 'way' the words 'and with the same sanction' be inserted.

He said:—"This amendment is hardly more than a formal one. At present, orders under section 96 can only be passed under the authority of the Government; but the Government having once passed an order declaring a wharf open, it is left to the Port Commissioners to pass the subsequent order prohibiting the use of any other wharf. There seems to be no objection to accept the wish of the Chamber of Commerce, that the same sanction be required for closing a wharf as is required for declaring a wharf open."

The Motion was put and agreed to.

The Hon'ble Sir Henry Harrison also moved that, between sections 96 and 97 of the Bill, the following section be inserted:—

'96A. Whenever any order made and published under sections ninety-four and ninety-six shall have the effect of rendering it unlawful to land or ship any goods out of, or into, any vessel at any wharf, quay, stage, jetty or pier lawfully made, erected, or fixed by any person for the convenience of private traffic, or to which a prescriptive right may have been acquired by possession of sixty years or upwards, such person, his representatives or assigns, shall be entitled to institute a civil suit for the award of compensation to him for the injury caused by the order hereinbefore mentioned:

'Provided that, in awarding such compensation, the Court shall not take into consideration any tolls, dues, rates or charges which the aforesaid person claiming compensation shall be liable to pay for using the wharf, quay, stage, jetty or pier provided by the Commissioners

for public use:

'Provided also that it shall be lawful for the Commissioners, in lieu of closing any wharf, quay, stage, jetty or pier under either of the said sections, to allow the continued use thereof on payment of such scale of tolls, dues, rates and charges as may be agreed upon between the owner thereof and the Commissioners.'

He said:—"This amendment is in the form of a new section to be inserted at the end of section 96. First, I should say that the right to institute a suit for the award of compensation is now proposed to be applied to section 94 as well as to section 96. The only reason why the section was not originally proposed in that form was, that the persons who put forward the objection to section 96 did

not extend their objection to section 94; and, naturally enough, the proposal took the form in which the objection was made by those who pressed it.

"In the wording of the earlier part of the new section, it has been deemed advisable to follow more closely the wording of the amendment to section 85,

which the Council have accepted.

"In our last meeting, the Hon'ble Mr. Moore, on behalf of those whom he represents, stated that the objection to charging the owners of wharves fees or rates, and not giving them compensation for any fees which they may be, in the future, bound to pay, would be abandoned. I assume that some members of this Council would entertain serious objections to any possibility of compensation being given for future fees; and it is, therefore, desirable to avail ourselves of that concession, and to formally embody in the new section a provise to the effect that, the Court is not to take into consideration any tolls, dues, rates or charges which the owner of the wharf, pier or jetty would become liable to pay in consequence of the closure of the wharf. It is, on the other hand, obviously intended that all other legal injury which such person may suffer

should be taken into consideration.

"Again, the learned Advocate-General pointed out at our last meeting that the very best way of dealing with these wharves or jetties in general would be not to destroy or close them, but to allow them to be used on payment of a sufficient sum in lieu of the tolls, dues and charges to be paid for the use of the wharves or jetties of the Commissioners. I have ascertained that the only reason why the Port Commissioners have not followed this course in, because they thought they had not the power to do so, and that it is the course they would prefer to follow; that is to say, if a private jetty comes in competition with the working of one of their wharves, they would prefer, instead of closing it, to say—here is your own wharf which you have constructed along with the necessary appliances, and therefore you ought to pay us something less than what we are entitled to charge for the use of wharves erected by us and the appliances provided by us. At the same time, as the tolls charged on jetties are not solely on account of the mere work of landing, but also in part defray the general expenses which, as trustees of the Port, we must incur to maintain the Port and the river in a navigable condition, therefore it is not fair that you should use your jetties free of all payment of tolls. So far from the Port Commissioners raising any objection to this proposal, I find that they consider it the very best and most convenient way of dealing with the matter. I therefore propose to enact clearly in the new section that, the payment of tolls in such cases may be a matter of agreement between the two parties.

"Obviously, we might have gone further and have made it obligatory on the Port Commissioners to do this, and I am not aware that the Commissioners would raise any violent objection to its being made obligatory; but there are some difficulties in the way of this, and practically the Port Trust will be very willing to work on this system: and as by the constitution of the new Commission the Chamber of Commerce will be largely represented. I think we may fairly rely on the reason and good sense of the Commissioners to work the section in a satisfactory and harmonious manner. I should therefore prefer

framing the section in this optional manner.

"As regards the general form of the amendment, after thinking over all the objections which have been raised, I think the Council may, without any unreasonable apprehension as regards the consequences, adopt this amendment. The Port Commissioners themselves are unanimously in favour of going at least as far as this: many of them would be disposed to go further. The question was brought up at the last meeting of the Commissioners, and I am authorised to say that they are unanimously in favour of the section as far as it goes, though all do not think that it goes far enough, and have no grounds to apprehend any inconvenience resulting therefrom. I do not say that the Legislature is bound, in a matter of this kind, to follow the opinion of the Port Commissioners; they are bound to think for themselves, and to insert in this law what they think right and proper in every respect. Still, though it is our duty to think for ourselves and not to adopt anything which we think wrong in principle, we cannot but allow weight to the fact that those most intimately concerned in the matter see no grounds to anticipate danger to their finances.

"Again, if the provisions of section 106 of the Bill are borne in mind, I think the Council will consider that there can be no practical danger of injury to the interests of the Bort. By that section the Government has power, in the event of the income of the Port being insufficient, to require the Commissioners to introduce a scale of tolls on all goods landed anywhere in the port over and above what is charged on goods landed or shipped at any dock, wharf, &c., belonging to the Commissioners. So that in case of any deficiency arising in the income of the Port Trust, there is reserved a power, which never has been exercised, and, I believe, never will be, of imposing an additional scale of duties on all goods landed or shipped, whether on private wharves or on the Commissioners' wharves, or at the ship's sides in boats, or on the banks of the river. With such a power, I do not think it is possible to suppose that, the financial security of the Port can be jeopardised by passing a section such as is now proposed.

"It should, however, be pointed out to the Commissioners that if they exercise the power vested in them by the last clause of the amendment, they must be careful at the same time to make it clear in the agreement with the owner of the private wharf that, in the event of the Government exercising the power conferred upon it by section 106 of requiring tolls to be paid on all goods, the owner of the wharf will have to pay such tolls in addition to the rate agreed to be paid to the Commissioners for permitting the use of the wharf. Inasmuch as it is in the hands of the Commissioners in framing the agreement to secure the future payment of tolls under section 106 in addition to the rates agreed upon, it only requires due care on the part of the Commissioners, and it is unnecessary to propose any amendment upon section 106. I therefore move

the amendment to section 96."

The Hon'ble Mr. Allen said:—"The section which has now come before the Council proceeds on the assumption of the right of the Port Commissioners to a monopoly of the tolls, and is entirely free from the objection which appeared to me to militate against the amendment proposed on the last occasion; and to that extent I have no possible objection to it. But, as I said on a former occasion, to my mind the whole amendment is void of any practical importance under present conditions, and I have therefore had considerable doubt whether I ought to make any remark on the present amendment. I entertain the same opinion as I did before, as to the unlikelihood of its ever being brought into operation. But even as a piece of theoretical fancy legislation, it appears to me that if I allow the Council to remain in ignorance of the objections of a legal nature which appear to me to arise, I shall be wanting in the duty expected from my office. And therefore I shall say a few words on the matter.

"A suggestion was thrown out by the hon'ble member on my left (Mr. Nolan) on the last occasion that, if the restriction, imposed under section 96 of the Bill, is to entitle the owner of a private wharf to receive compensation for the loss he sustains in respect of inland traffic, there is no reason why owners of wharves for sea-borne traffic should not be compensated when subjected to the similar restriction under section 94. It appears to me that the gentlemen who brought forward this objection have entirely forgotten the existence of a law, which makes an essential difference between sea-borne traffic and inland traffic. The proposal has a sort of superficial plausibility about it; but on referring to the Sea Customs Act, I think this plausibility will disappear.

"It may be roughly said that, every person who has water frontage is entitled to use his land for the purpose of loading and unloading vessels and boats which are engaged in the inland trade within the country, and to deprive him of that right, is to prevent him from utilising his land to the best advantage. Can that be said with reference to sea-borne traffic? Certainly not. In India, and in every civilised country which possesses a Custom House, the whole coast is surrounded by a legal wall, and the owner of land on the seashore who attempts to use his land for the purpose of landing or shipping seaborne goods, exposes himself under section 167, Act VIII, 1878, to a fine of Rs. 1,000 for every such attempt, and the confiscation of his goods. A man may own 100 miles of the sea frontage and not be able to use a single yard for this purpose. This at once marks a difference between seaborne and inland traffic. It is only

within an established port that seaborne goods can be landed. The ports are the gates in that legal wall—the only legitimate entrance through which foreign

goods may be brought into the country.

"But even within the port itself, ownership of a river frontage gives no right to establish a wharf. The establishment of wharves for seaborne goods is in the Local Government Section 11 of Act VIII of 1878 provides that, the Local Government may, from time to time, declare the limits of their ports, appoint proper places therein to be wharves for landing and shipping of goods, &c.; while section 73 forbids the landing of goods at any place other than a

wharf duly appointed.

"It therefore appears that the only legitimate places within a port at which seaborne goods can be landed are, wharves which the Government has appointed; and, consequently, there can be no such right in any one to be compensated for a restrictive order under section 94, as there might be for a restriction imposed under section 96: and it was no doubt the knowledge of this essential difference, and not mere inadvertence, that caused the memorial of the commercial gentlemen to omit all allusion to section 94 and confine their claim to the restriction of section 96. Section 94 says that, when a sufficient number of docks, wharves, &c., shall have been erected for the landing and shipment of goods of all sea-going vessels resorting to the port, an order may be passed that, without the express sanction of the Commissioners, no goods shall be landed or shipped from any sea-going vessel within the port, save at such wharves, &c.; that is,

a general order may be passed applicable to all ships.

"But section 92 makes a similar provision for a special order to each particular ship. It says: - It shall be lawful for the Commissioners to require the Conservator of the port from time to time when there shall be room at such dock, wharf, &c., to order to come alongside of such dock, &c., for the purpose of being laden or unladen any sea-going vessel which shall not have commenced to discharge or take in goods. If section 94 is to be put into this amendment, why not section 92? Section 92 enables you to issue a particular order against any particular ship, and section 94 provides for the issue of a general order regarding all ships. They are exactly on the same footing. A series of special orders to each ship as it arrives will have the same result, as a general order to all ships. If the amendment proposed entails any consequences to evade it, all the Commissioners have to do is, in each case to take particular action under section 92. I think, therefore, that we should either omit the reference to section 94, or section 92 should be added in this amendment. If this last be done, what will the position be? Shall the Fort Commissioners, whenever they issue orders to bring a ship to their wharf under section 92, be obliged in each case to send round to the persons who own private wharves, if any such there be, and settle with each man the proportion he shall receive as compendrawn from the public wharf? It would be much wiser to limit the amendment, so as to apply only to restrictions issued under section 96.

"Then comes another point, namely, that inasmuch as the private right to tolls is given up and the structure is to be allowed to stand, what is there remaining to compensate? The first two paragraphs of the section seem practically reduced to a nullity, and the only part of this proposed section that can operate will be the last paragraph. If the amending section is cut down to that, I have no objection. I should go farther, and am prepared to say that, any person having a private wharf shall be entitled to continue to use it on paying the tolls to which goods landed at the public wharves are liable."

The Hon'ble Mr. Nolan said:—"I had not intended to say anything upon the present motion, as it was discussed at some length in another form at our last meeting; but, perhaps, I may be expected to make some reply to what has fallen from the last speaker as to the injustice of giving compensation to the owners of wharves for sea-going vessels. We all gladly recognise the propriety of the course adopted by the hon'ble member who is also the Remembrancer for Legal Affairs, in indicating objections founded on the existing law; and, in this instance, I only regret that he did not raise the point at an earlier period of the discussion, when we were engaged in examining section 85 of the Bill, which makes no distinction between wharves for

sea-going and wharves for river vessels. In the present instance, he states that river-frontage carries with it, prima facie, the right to land goods brought from the interior, and deprivation of this right may properly be the subject of compensation; but that no one has any right, under the Sea Customs Act, to land sea-borne goods except at places specified under section 85 of that Act, and that, therefore, there can be no right to compensation. As far as I can make out, the section quoted, applies equally to landing from river vessels. hon'ble member intimates dissent from this view, and no doubt he is better informed; but the matter is of little consequence, inasmuch as wharves for inland trade, whether they can be closed under the Indian Customs Tariff Act or not, can undoubtedly be closed under the Port Commissioners' Act, 1870. They are thus held on sufferance precisely as are the wharves for sea-going vessels, and no real distinction exists. In both cases the use of the river bank is subject to such conditions as the Legislature may, from time to time, impose.

"It is true that we should not give compensation for a wharf to a person who. under the Sea Customs Act, has no title to use it, and that is not proposed; but we are considering the case of those who have been, or may hereafter be, allowed under that Act to establish wharves, and in regard to them, there is no reason why they should be refused compensation for real loss occasioned by the orders of the Port Commissioners. Calcutta is not only a place of trade, but also a manufacturing town; and at many of the factories, it is really necessary that goods should be landed. These may come, as jute commonly does; by river, or as coal, by sea; in either case, it is often convenient to effect the landing on the premises. I see no reason why the wharves legally appointed under the Sea Customs Act for landing coal should be refused protection because the town is a port, and therefore a place in which it is of special importance that all commercial interests should be jealously guarded."

The Hon'ble Mr. Moore said: -" I support this amendment, but I have no further arguments to adduce in regard to it. As, however, I sincerely trust this will be the last opportunity I shall have of making a speech regarding the Port Bill, I am anxious to correct one or two errors that have arisen in the course of the discussion. The first was a slight one made by the Hon'ble Sir Charles Paul, in stating that I merely represented a small class of interested individuals, and not the commercial community at large; whereas I have been speaking on behalf of the Chamber of Commerce through its Committee, which is specially elected to include the whole community of commerce, and the memorial of the Chamber was unanimously adopted by that Committee. It is not only certain jute mills and such industries which are concerned and interested, and this is shown by the memorials submitted by other bodies and private persons, such as Mr. John Stalkart. On some occasions, however, I do find difficulty in defining whether I am speaking for myself only or for those I represent, and it arises in the Hon'ble Sir Henry Harrison's remarks regarding the concession made by the Chamber in withdrawing any claim under this section to compensation for payment of future tolls, &c. Now, as a matter of fact, I never specially put this point to the Chamber, but holding the opinion myself that such compensation should not be included, I never intended in the original amendment I drew that it should appear, and so was quite willing that a distinct provision debarring it should be made; but I may add this, that though I did not specially obtain the opinion of the Chamber on the subject, I may, I think, guarantee that they will support the action that I have taken.
"In regard to the Hon'ble Mr. Allen's suggestion, that the final clause in

the amendment under discussion should be made more binding. I think it might be imposing an inconvenient restriction on the Commissioners; and that, there-

fore, it had better be left in its present optional form than made obligatory.
"There is a very prevalent error abroad that, the enactment of this Bill and the special attention paid to sections 85 and 96, heralds a concerted plan to attack all down the line, and carry by assault every bit of private property on the banks of the Hooghly from the Jubilee Bridge to Diamond Harbour. Of course it is known to this Council, but it is well it should be thoroughly understood outside, that the Bill was merely introduced to consolidate, for convenience sake, the various Bills governing the port; and proof that the impression mentioned is devoid of foundation is found in the fact that, had the

Commissioners or Government contemplated such a thing, they would have done it under the old Act which gives them full powers, and before a reenactment took place, which in all possibility, (if not a certainty) might be

changed as it has been to modify those powers.

"In conclusion, I wish to correct another error. It has in many quarters been thought that over these sections the Government has been distinctly obstructive, and in opposition to the views and principles held by commercial people on the commercial aspect of the question. I am very glad to publicly state that this is not my experience in the close connection I have had with this long discussion; and to acknowledge that, on the contrary, conciliation, which the Hon'ble Sir Henry Harrison recently claimed had been shown, is a correct description of the attitude Government has taken up in the matter. The error probably arises from the long delay that has preceded its settlement, which is easily explained. The views of those personally interested are naturally uppermost in their minds, but it takes long to engraft new views on the minds of others who, like Government officials, are not personally interested; and it would plainly not be right for these latter to hastily accept principles impressed upon them before being convinced that they are correct. That the desire to meet those interested has been shown, is testified to in the many modifications made in the sections under allusion by the member in charge of the Bill, each of which nearly has followed representations made and points urged from my side of the question, culminating in the final amendment now before us, which I hope will be carried and close this long debate."

The Hon'ble Dr. Rash Behary Ghose said:—"I also support the amendment which has been proposed, and in doing so, I am bound to say that I am unable to accept a great deal of what has fallen from the Hon'ble Mr. Allen. The right of a riparian owner of using his property as a wharf for the loading and unloading of his goods has been recognised as a very valuable kind of private property. The question was elaborately discussed in the well-known case of Lyon versus the Fishmongers Company. The whole matter was there thoroughly discussed and the House of Lords came unanimously to the conclusion—and they are not always unanimous—that the right of a riparian owner to access to the river is a private right, and when it is interfered with, compensation ought to be given to the injured owner. The question was also discussed in a very recent case which came before the Privy Council on appeal, and their lordships were of opinion that, according to the French law which prevails in Lower Canada, a riparian owner has the same rights as the House of Lords in the case of Lyon versus the Fishmongers Company decided that such an owner had under English law. That being the French and the English law on the subject, we may take it for granted that, there can be no question of the existence of such rights.

"But it is said by the Hon'ble Mr. Allen, that the Sea Customs Act says nothing about any compensation. I have not had time to examine the Customs Act, but all I can say in answer to the objection founded on the absence of any clause for compensation is, that if it is not there it ought to be there. It is the old old argument that, you are now going to give compensation to private owners for the first time, although the Legislature has refused to recognise any such right over since the year 1866, when power was given to the Justices of the Peace to take away private property without giving any compensation to

the owner

"It was said by the Hon'ble Mr. Allen on the last occasion that, in refusing to give any compensation, we are only following the lines on which the Indian Legislature has proceeded in other cases. Now, I confess, I should be extremely sorry to think that our Legislature has proceeded on a different basis from that on which all civilized Legislatures during the present century have proceeded in these matters. [Mr. Allen:—"My argument was, that legislation had taken place before the wharves came into existence; they were subject to that legislation."] I begin hon'ble member's pardon if I have misunderstood. him. I was referring to what the non'ble member said with regard to private ferries. Unless I am very much mistaken, it was said by the Hon'ble Mr. Allen that when the Government established a public ferry, although it might be done to the injury of the owner of a neighbouring private ferry, he was not entitled to any compensation. Now, turning to the present Ferries Act, I of

1885, section 17, I find it says—'Claims for compensation for any loss sustained by any person in consequence of a private ferry being taken possession of, or a new public ferry or subsidiary ferry, being established under section 6 or section 11, shall be enquired into by the Magistrate of the district in which such ferry is situated, who shall, with the approval of the Commissioner, award compensation to any person who may appear justly entitled thereto.' Then the section goes on to prescribe the mode in which compen-

sation should be settled in such cases.

"It has been said that if compensation is given to persons who may be affected by the exercise of the power which is conferred on the Commissioners by section 94, we ought also to give compensation in the cases referred to in section 92. Now my answer to that objection is this, that section 92 does not directly affect any private property. It may be said, and it has been said, that although section 92 does not directly affect private property, it may indirectly do so. But the answer to that is, that the law does not allow compensation when the injury for which compensation is claimed is too remote. You can only give compensation where the injury is directly caused by the exercise of a particular power. It would open a very wide door, indeed, to all manner of claims for compensation if it was to be given for any injury, however indirect, however remote, which might be caused by the doing of a particular act. I accept the amendment which has been moved by the Hon'ble Sir Henry Harrison, because, I think, it embodies a principle to which, I think, no real exception can be taken; and it is certainly, as has been already pointed out, not open to the objections taken to the previous amendment.

"Before I sit down, I must beg to say a few words on some remarks which I know have been made with regard to the present measure. The Hou'ble Mr. Moore has told us of the somewhat unnecessary alarm which the appearance of this Bill created in the mercantile community; but the way in which their representations have been met, ought to satisfy them that their fears were groundless. But our attitude of conciliation has, I regret, given rise to some hostile criticism. It has been said in certain quarters that, we have weakly yielded to the clamour of an interested party. Now that is, we all know, only a rhetorical mode of saying we do not approve of your action. But what do these gentlemen really mean by saying, that we have weakly yielded to the clamour of an interested faction? Do they mean to say that when persons come before us with a grievance and represent that grievance to us, we should tell them we cannot listen to you, because you represent an interested party? You must send some person who has no interest in the matter to represent your grievance

to un.

"Then, about the clamour. Do these gentlemen mean to say that, when persons with a grievance come before us, they should be told to speak with bated breath and whispering humbleness that they have no right to appeal to the public press in a spirit of fairness, or to go to counsel for opinion

as to their own rights? Surely, we cannot do snything of the kind.

"Then, as regards our too weakly yielding to clamour. Do our critics mean to say that, although we may be satisfied that a grievance really exists, we must not make any concession because it would be weakly yielding to those who complain of the grievance? Well, if to concede what one believes according to his lights to be right and proper is weakness, I must confess that I share that weakness. And I do not at all envy the man who would not do what is shown or proved to be right, simply because it would be yielding or conceding what he was not at first prepared to concede. The question, therefore, is one simply of principle; and as I understand the matter, we are now generally agreed that, the owner of property who may be injured by the exercise of the powers conferred by this Act is entitled to compensation. Partial evil may possibly be universal good, but it will be small comfort to a private owner whese property is taken away to be told that, what is lost by him is gained by the public.

"On this point, I shall venture to read a passage from the Judgment of Lord Bramwell in the Hammersmith and City Railway Company versus Brand, which, I think, is very much to the point. The noble and learned lord says:—

^{&#}x27;It is said that the railway and the working of it are for the public benefit, and theretere the damage must be done and be uncompensated. Admitting that the damage must be

done for the public benefit, that is no reason why it should be uncompensated. It is to be remembered that that compensation comes from the public which gets the benefit. It comes directly from those who do the damage, but ultimately from the public in the fares they pay. If the fares will not pay for this damage and a fair profit on the Company's capital, the speculation is a losing one, as all the gain does not pay all the loss and leave a fair profit. Either, therefore, the railway ought not to be mide, or the damage may well be paid for. But further, though if it were the law and practice to do individuals a damage for the benefit of the public without compensation, no one in particular could complain when it happened to him, as everyone would know that he held his property subject to being deprived of it or having it injured when it suited the public; still such a law and practice would be highly inconvenient and mischievous.'

"But I have another and perhaps still higher authority. One of the greatest names in English jurisprudence, Jeremy Bentham, who, I believe, was the first to preach the gospel of Beccaria in England, and who cannot be suspected of any predilection for private rights when they come into competition with public rights in his theory of legislation; in speaking of the suppression of pensions and places without indemnity to the possessors, says:—

'The interest of individuals, it is said, ought to yield to the public interest. But what does that mean? Is not one individual as much a part of the public as another? This public interest which you introduce as a person is only an abstract term, but it represents nothing but the mass of individual interests. It is necessary to take them all into account, instead of considering some as all and the others as nothing. If it is a good thing to sacrifice the fortune of one individual to augment that of others, it will be yet better to sacrifice a accord, a third, a hundred, a thousand, an unlimited number; for whatever may be the number of those you have ascrificed, you will always have the same reason to add one more. In one word, the interest of everybody is sacred, or the interest of nobody.'

"Then, he says:-

'Individual interests are the only real interests. Take care of the individuals; never molest them, never suffer any one to molest them, and you will have done enough for the public.'

"I refer to these authorities because a principle which one would have thought would never be seriously disputed, has been hotly disputed—if not by any of the hon'ble members here, at least by a portion of the outside public—and that is my only apology for troubling the Council with these authorities."

The Hon'ble Sir Charles Paul said:—"As all parties are more or less agreed on this present amendment I do not propose to prolong the discussion. I shall only say a very few words. I believe there is a distinction between the cases falling under section 94 and the cases falling under section 96, as pointed out by the Hon'ble Mr. Allen. But I do not think that, assuming there is a distinction between the sections, his objections dispose of the matter under consideration. The amendment proposed is, that if any order under section 94 affects a private person, he shall be entitled to compensation. If it be supposed that an order of this kind has no effect, it follows there will be no compensation. I think that is a sufficient answer to that objection.

"The Hon'ble Mr. Moore corrected me of an error into which, he says, I fell on the last occasion. If I committed an error I am glad to be corrected; but I must say in self-defence that I did not intend to deny, question, or restrict the extensive representation which is centred in himself. But what I did say was, that in reference to compensation under section 96, the claim to compensation was being urged by the Hon'ble Mr. Moore, representing a very small number of people, namely, those who had jetties and wharves on the river banks for landing goods for their own purposes. That is all I intended to say. I am quite aware that he represents a very large section of the community, and it would not be fair of me to say anything derogatory of the high position which he fills in this Council. I am glad that he thinks we have arrived at a result which is entirely satisfactory to him and to those whom he represents. That must be a consolation also to other members of Council on this occasion. I think it eminently satisfactory that the labours of this Council have resulted in reducing propositions which embraced,

what I may call for want of a better word, lawless elements into one or more propositions composed of lawful conditions."

The Hon'ble Sir Henry Harrison said in reply:—"As regards the necessity of applying the new section 96A to section 94, the Hon'ble Sir Charles Paul has just said, in far better language than I could have done, precisely what I wanted to say, namely, that although the Hon'ble Mr. Allen's argument is valid to a certain extent, it is not sufficiently valid to make it right and proper to exclude section 94. As regards section 92, I think an insufficient case has been made out, because that is the section under which the Commissioners can make a particular order with regard to a particular vessel when it has not commenced discharging eargo, and it is obviously for the purpose of regulating the traffic. It is obviously proper for the Commissioners to say we are now ready for a particular ship, and it must be brought to our jetty and not taken to a private jetty to which it might have otherwise gone. That is very different from saying, that for all time the use of your jetty is closed.

"As regards making the last clause of the section obligatory, I have considered the matter carefully, and I think it would be inconvenient to do so. If we had done so, the owner would have had to pay the full tolls, which in some cases would be more than the Commissioners would wish him to do. They would wish to charge something less than the ordinary amount of tolls to compensate the owner for having put up the jetty, and using his own appliances and labour; and, therefore, it would not be fair to ask from him the same amount of tolls which would be paid by others who used the Commissioners' wharves and jetties.

"In conclusion, I must thank the Hon'ble Mr. Moore for what he has been so good to say, as regards the attitude of the Council in dealing with this matter. It is very discouraging to see that such extraordinary misapprehensions can gather force, especially when, as in this instance, the community which, we are informed labours under this misapprehension, is undoubtedly one of the most intelligent communities in India. Is it conceivable that the Bengal Legislative Council could consciously be indifferent to one of the most important interests in the country? Knowing, as the Council does, that the entire welfare of Calcutta, and in a large measure the welfare of Bengal, is bound up with the success of its commerce and trade, is it possible that they should wish to inaugurate a régime of hostile legislation? Now that we apparently have arrived at a satisfactory conclusion, I am bound to say that it is in a great measure due to our singularly good fortune in having to deal with the gentleman who represents in this Council the interests of the commerce of the port, and who has known so well how to reconcile the duty he owes to the interests which he represents, with that courtesy and conciliatory attitude which make the work of those who have to treat with him so much easier than it might otherwise have been."

The Motion was put and agreed to.

SUSPENSION OF RULES.

The Hon'ble Sir Henry Harrison also applied to the President for the suspension of Rules.

He said:—"After the satisfactory result at which we have just arrived, I think I may fairly be permitted to ask Your Honour to allow the Rules to be suspended, for the purpose of passing this measure at this meeting of the Council. Although it is undoubtedly true that we have had three very important and useful discussions on one feature of the Bill, yet, I may say, on the one hand that, after the unanimous result which has been attained, so far as the discussion to-day is concerned, no one can say that we are proceeding with undue haste in giving it immediate effect by passing the Bill to-day; on the other hand, this measure, though a very large one, has, as regards all its other proposals and changes, received no opposition whatever. Under these circumstances, seeing that all the other features of the Bill have been accepted

without amendment, and that this one point has been thoroughly considered and a satisfactory conclusion has been unanimously arrived at, and that further delay will serve no beneficial purpose, I ask Your Honour to suspend the Rules in order that the Bill may be passed at once, instead of coming here next week in order to go through the formality of passing it."

The President having declared the Rules suspended-

The Hon'ble Sir Henry Harrison moved that the Bill, as settled in Council, be passed.

The Motion was put and agreed to.

The Council adjourned eine die.

CALCUTTA;

C. H. REILY,

The 7th March, 1890.

Assistant Secretary to the Govt. of Bengul,
Legislative Departments.

The 18th March, 1890.—The following is published for general information.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN.

Secretary to the Government of Bengul.

EXHIBITION TO BE HELD IN JAMAICA IN THE YEAR 1891.

Extract from the Proceedings of the Government of India, Revenue and Agricultural Department (Museums and Exhibitions),—No. 239, dated Calcutta, the 5th March 1890.

The following papers received from Her Majesty's Secretary of State for India relative to an Exhibition to be held in Jamaica in the year 1891 are published for general information:—

Industrial and Manufacturing Exhibition to be opened in Jamaica, January 1891.

COMMITTEE IN UNITED KINGDOM.

Honorary President :

The RIGHT HON. THE LORD KNUTSFORD, OCMG., &c.

Chairman:

C. WASHINGTON EVES, Esq., F.R G.S

Committee :

HIS GRACE THE DUKE OF ST. ALBANS.
SIR HENRY BARKLEY, G.C.M.G., K.C.B.
SIR FREDERIC YOUNG, K.C.M.G.
SIR EDWARD NEWTON, K.C.M.G.
SIR J. R. SOMERS VINE, F.S.S.
MAJOR-GENERAL J. R. MANN, C.M.G.
SIR JOHN SIMON.
NEVILE LUBBOCK, ESQ.
ALEXANDER CRUM EWING, ESQ.

RICHARD M. HARVEY, ESQ., F.R.G.S.
D. MORRIS, ESQ., M.A., F.L.S.
MANWELL HALL, ESQ., M.A., F.R.A.S.
DR. D. PALMER ROSS, F.R.C.S.E.
J. KENYON HAWTHORN, ESQ.
W. C. C. PARK, ESQ.
SAMUEL SHORTHIDGE, ESQ.
WM. FAWCETT, ESQ., B.SC., F.L.S.
E. A. DE PARS, ESQ.

The Exhibition, to be opened in January 1891, will be managed by a Commission, His Excellency the Governor being at the head. This Commission has already been constituted by a Colonial Law.

A Committee has been formed in London, representing Jamaica interests in the United Kingdom, to co-operate with the organizing body in Jamaica. The Committee as at present constituted is given above, the consent of Lord Knutsford to act as Honorary President being especially gratifying to all connected with the Colony. That the scheme has taken practical shape is proved by the fact that in the Colony alone over £16,400 has already been guaranteed out of a total of £20,000 required.

The exhibition will comprise specimens of all Jamaica products: Sugar of all qualities and its allied industry of Rum manufacture; Liqueurs, Cordials, &c.; Coffee; Oranges Pine Apples and Fruits of all kinds; Pimento, Cacao, Annatto; Woods in all degrees of preparation for use; Spices, Condiments, &c.; Fibres and Fibrous Material; Cinchona Bark, Oils, Essential Oils, Perfumes, &c.; Medicinal and Economic substances; Works of Art, Pictures. Fancy Articles and Ornamental Work; Horses, Cattle and Live Stock of all kinds. The Botany and Geology of the Island will also be fully illustrated.

There will also be exhibited specimens of goods imported into Jamaica from all countries.

It is hoped that all parts of the Empire will add to the interest and completeness of this experiments and completeness and completeness of this

exposition by sending specimens and ornamental trophies illustrative of their productions.

The attention of Merchants and Manufacturers in the United Kingdom is especially invited. English goods find a ready market in a Colony of nearly 650,000 people. It is also desired to show the advance of science in manufacturing tropical products. The Engineering Firms and Manufactures of Machinery are requested to give their aid by exhibiting plans, drawings, models and specimens, so far as convenient, of actual machinery connected with such manufactures.

Shipowners are earnestly requested to co-operate by offering to take out specimens free of freight, and all who are interested in the commerce and productive prosperity of Jamaica are desired to give their help to an undertaking which must be beneficial to the Colony and all concerned in its fortunes.

As the Exhibition will be made as attractive as possible, the question of hotel accommodation for visitors from all parts of the British Empire, from the Continent of Europe and the United States and South America will be considered and details published in good time.

Communications and applications for forms and regulations to be addressed as early as possible to the Chairman, 1, Fen Court, London, E. C.

December 1889.

Regulations for the Jamaica Exhibition, 1891.

1. The Exhibition shall be one of Island Products, Manufactures and Works of Art, together with Exhibits of Works of Art, Machinery and Industrial and Agricultural Products from Great Britain and other Countries and Colonies.

The Exhibition shall be under the management and conduct of "The Jamaica

Exhibition Commissioners" under Law 33 of 1889.

The Exhibition will be held in buildings to be eracted for the purposes of the Exhibition on the grounds of "Quebeo Lodge," conveniently situated on the northern boundary of the City of Kingston.
4. The Exhibition shall be opened on Tuesday, the 27th January 1891, and shall remain

open for a period of not less than three months.

- 5. In order to secure uniformity of action there should be in each Country or Colony a Central Committee or a single Commissioner to act on behalf of the Exhibitors. Such Committee or Commissioner should perform the following functions:-
 - (a) Distribute the Rules and Regulations Application Forms, &c., to those likely to become Exhibitora.

(b) Receive the forms when filled up, the lists of articles for Exhibition, &c.
(c) Communicate upon all matters directly with the Secretary of the Exhibition, and

forward to him, from time to time, any applications for space

(d) When the Commissioners shall have decided how much space is available, it will be the duty of the Committee or Commissioner to divide it amongst the Exhibitors of such Country or Colony.

There should also be an Agent in Jamaica for each Country or Colony. The same person

- can, of course, act for more than one Country or Colony.

 6. Any expenses, of whatsoever nature, connected with the representation of any Country or Colony not horne by the authorities of such Country or Colony must be defrayed by the Exhibitors themselves.
- 7. Applications for space must be made in the printed forms prepared by the Commissioners. These must be in the hands of the Secretary on or before the 1st May 1890

 8. The Secretary shall, before the 1st of July 1890, notify the decision of the Commis-

sioners, and shall state what space, if any, has been allotted.

9 The reception of articles in the Exhibition Buildings shall commence on the let September 1890, and no articles shall be admitted after the 1st December 1890. Space assigned and not occupied on the 1st December 1890 shall revert to the Commissioners and shall be subject to re-assignment.

10. All Exhibits shall be arranged under some one of the following groups :-

I .- Raw Materials. Group

Group 11.-Implements for obtaining Raw Materials.

Group III .- Machines and Processes used in preparing and making up the Raw Materials into Finished Products.

Group IV. - Manufactured Goods.

V .- Education. Group

Group VI .- Fine Arts, Literature and Science

Each of these groups is divided into classes, according to the system of general classification annexed to these Regulations (Appendix). This Appendix includes for each class a summary enumeration of the objects which it will comprise.

11. All packages from places in Jamaica containing goods intended for Exhibition must have placed on them the distinctive mark Jamaica Exhibition, as well as the name of the

Exhibitor, and must contain a detailed list of contents.

12. Packages from Great Britain or other Countries or Colonies must likewise have painted on them the distinctive mark Januaica Echiletton. They must be addressed to the Exhibitor bimself or his private Agent, if any, or to the Agent, if any, of the Country or Colony from which they are sent. They must all be marked in such a way as to show distinctly the name of the Country or Colony from whence they come, and they must contain a detailed list of contents, a duplicate copy of which should be sent by post to the consignee.

13. Every object sent for Exhibition should be accompanied by a label stating the name

and address of the Exhibitor and the number of the group to which it belongs.

14. Exhibitors outside Jamaies must provide, either personally or through Agents, for

the despatch and transmission of their goods

15. The Agents in Jamaica of the Countries or Colonies from which the Exhibits are sent are expected to provide for the reception, unpacking and, at the close of the Exhibition, the removal of the goods.

The Exhibits in Jamaica, except in the City of Kingston, shall be received by the Parochial Committees in the several parishes and shall be forwarded by them to the care of the Commissioners in Kingston, who shall arrange them in the Exhibition and return them to the Parochial Committees at the close of the Exhibition, if not otherwise disposed of. Exhibits in Kingston should be forwarded direct to the care of the Commissioners. Individual Exhibitors may however, if they prefer that course, either personally or through their own Agents, undertake the reception annaking, arrangement and final removal of their goods, subject to the control of the Commissioners.

17. Exhibitors shall not be required to pay rent for the space occupied by Exhibits not intended for sale during the Exhibition. Information as to the renting of space for the sale

of goods may be obtained from the Secretary.

EXHIBITION SPACES.—The space granted to a Country or Colony within the Build-18. ing is available for floor space, exclusive of passages for the public.

19. Show Cases - No particular form or design is prescribed for cases, counters, platforms, &c, but they must not exceed the following heights without the special written permission of the Chamber of the mission of the Commissioners :-Show cases and partitions 10 feet above floor. 3 do. 1 foot do. Platforms Such structures are to be erected by Exhibitors at their own cost. 20. Railings of a uniform height of 2 feet 6 inches above the floor level may be erected. In every instance the railings must be within the area of the space allotted. The putting up of decorations and sign-boards and the display of printed or written bills shall be subject to any special arrangements made by the Commissioners 22. Cases must be unpacked as fast as received, and the empty cases taken away by the Exhibitors or their Agents. No space will be reserved for empty cases.

23. No Exhibitor shall be allowed to transfer any allotment of space, or to allow any other than his own duly admitted Exhibits to be placed thereon, except by special permission. 24. Exhibitors should mark the selling price of articles intended for sale for the information of visitors. Objects sold cannot be taken away before the close of the Exhibition without special permission Special arrangements will be made with regard to perishance Examples.

26. Exhibitors of apparatus requiring the use of water, gas, or steam must state on applying for admission the quantity considered necessary. Those who wish to show machinery in motion must state the rate of speed at which the machine is to be driven. The furnishing of all countershafting pulleys, gas, water, steam, &c., must be at the entire expense of the Exhibitor but under the direct control of the Commissioners or their appointed Officer. 27. Spirits or alcohol, oil, essences, corrosive substances, and generally all substances which might spoil other articles and inconvenience the public, can be received only in solidand suitable vessels of small size. Percussion caps, fireworks, chemical matches, and other similar objects can be received only when made in imitation and deprived of inflammable ingredients Articles that are in any way dangerous or offensive shall not be admitted into the Exhibition. 30. No article exhibited may be photographed, drawn, copied, or reproduced, in any way whatsoever, with ut the special sanction of the Exhibitor. 31. Awards will be made by Committees specially apparatus.
32. The Commissioners will not hold themselves responsible for any loss or damage occurring to any Exhibit from any cause whatsoever; but while declining any responsibility, it is the intention of the Commissioners to take such precautions as they deem necessary. The Commissioners reserve the right to remove the objects belonging to any Exhibitor who shall not conform to the regulations. Exhibits brought into Jamaies at any port of entry will be allowed to go forward to the Exhibition Buildings, under such arrangements for supervision by the Customs Officers s may be deemed proper, without examination at the port of entry, and at the close of the Exhibition will be allowed to go forward to the port from which they are to be exported. No duties will be levied upon such goods unless disposed of in Jamaica.

35. Immediately after the close of the Exhibition, Exhibitors whose Exhibits are not under charge of the Commissioners shall remove their effects and complete such removal within one month. Goods remaining after the expiry of the month will be removed by order of the Commissioners and sold for expenses, or otherwise disposed of under the direction of the Commissioners. 36. Each person who becomes an Exhibitor thereby soknowledges and undertakes to keep the Rules and Regulations established for the government of the Exhibition.

37. The Commissioners reserve the right to add to, alter, amend, or expunge any of the foregoing Regulations. APPENDIX. System of General Classification of Exhibits. GROUP I. Raw Materiale Class 1. Raw Materials in the Mineral Kingdom :a. - Minerals. d.-Rocks and their contained Fossils. Ores. Mineral Springs of Jamaica; their anac .- Phosphates and other Natural Manures. lysis and value. Class 2. Raw Materials in the Vegetable Kingdom :a.-Foods.-Sugarcanes, Cereals, Roots, e.—Druge.—Tobaccos, Coca, Cinchora, &c. f.—Condiments and Stimulants.—Coffee, Cacao, Kola. Poppers, Gingar, Pimento, Rum.

Dyos.—Logwood, Fustic, Annatto. b .- Fruits and Vegetables. - Bananas, Oranges,

Oils.—Castor Oil, Cocoanut Oil, Elssan-

tial Oils.

-Ornaniantal Plante.

Fibres .- Sisal Hemp, Manilla Hemp,

Coccanut, Cotton, Ramai.

d .- Timbers.

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· Class 3. Raw Materials in the Animal Kingdom :-
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a.—Cattle and Horses, Sheep, Pigs, &c. b.—Poultry, Birds, Fishes, Turtle, &c.

-Bees and Silkworms at work. d .- Wool, Horn, Turtle-Shell, Corals, &c.

GROUP II.

Implements for obtaining Raw Materials.

Class 4. Implements used in-

Mining. Geology. Extracting Ores.

Class 5. Agricultural and Horticultural Implements.

Class 6. Fishing Implements. Guns and Hunting Equipments.

GROUP III.

Machines und Processes used in preparing and making up the Itau Materials into Finished Products.

Class 7. In the Mineral Kingdom :-

a .- Potter's Wheel, &c.

b .- Glass blowing. c .- Making China, Firing, &c.

Class 8 In the Vegetable Kingdom: -

a.—Sugar-machinery, curing Cacao, making Arrewroot, Topicoa, Starch, Corn

Shellers and Driers. b. - Fruit Evaporators, packing Oranges,

Fibre-extracting, Rope-making, Mat-making, Hat and Basket-making, Weaving Cotton, Paper-making.

Class 9. In the Animal Kingdom :-

a.—Curing Meat and Fish.
b.—Model Dairy, making Butter.
c.—Preparing Silk and Wool and Weav-

d.—Outting and mounting Precious Stones. c.—Metal Work, Blacksmith's Work, &c.

d.—Carpentry, Cabinet-making.
c.—Making Cigars and Cigarettes.
f.—Coffee-machinery, Rum-distilling.
h.—Apparatus for expression and distillation of Oils.

d.—Cutting and preparing Tortoise Shell and Bones.

GROUP IV.

Manufactured Gnods.

Class 10. In the Mineral Kingdom :-

a.-Pottery, Glass, China.

ing them.

b. -Jewellery

c.—Sewing Machines, Needles and other Apparatus for making up Clothing.

Class 11. In the Vegetable Kingdom : -

s.-Sugar, Chocolate, Starches, Bread

and Pastry.
Preserves, Dried and Crystallized Fruit.

Cordage, Mats, Brushes, Thread. Paper, Textile Fabrics.

Class 12. In the Animal Kingdom :-

a .- Cured Meat and Fish.

b .- Dairy Produce.

d .- Apparatus for Heating and Lighting, Metal House-accessorie

c.—Steam-engines, Prime Motors.
f.—Goldsmiths' and Silversmiths'
Bronzes, Clocks and Watches.

furniture, Wood-work, Farm Build-ings, Model Dwellings.

Drugs.

f.-Coffee, Rum, Popper.

a. Dve-stuffs.

A. -- Oils.

c.-Woollen and Silk Goods.

d .- Leather, Horn, Bone Goods, &c.

Class 13. Goods made up of Materials from more than one of the Groups 1, 2, 3.

GROUP V.

Education.

Class 14. Kinder-Garten Appliances.

Industrial School Appliances.

Class 16. Organization, Methods, and Appliances for ordinary Education in Schools.

GROUP VI.

Fine Arts, Literature and Science.

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Class 17. Fine Arts :-
a.—Architecture.
b.—Painting, Drawing, Photography.
                                                          c.—Soulpture.
d.—Music.
Class 18. Literature and Accessories:-
     a.—Books, &c., on Jamaica and West Indies.
                                                          d.—Books, &c., on America.
e.—,, General.
f.—Book-binding.
     b.—Books, &c., on British Isles.
c.—, British Colonies (exclusive of a).
                                                           g.-Printing.
Chas 19. Science:-
      a. - Maps and Charts of the West
                                                           b.—Engineering, Sanitation, Gas, Electricity, Astronomy.
                                             c.—Anthropology.
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Scheme of Arrangement of Classes.

1.	1	2	3
п.	4	5	6
111.1	* 7	8	9
+	10	11	12 -
. IV	•	13	
V V	14	1.5	10 3
v1	17		19

JAMAICA EXHIBITION, 1891.

APPLICATION PC	R SPACE,
Name in full, or name of Firm	
	6
Address in full	
Goueral nature of goods, specifying Groups in which it is proposed to exhibit. (For particulars see back.)	
,	No. of Square Feet.
Space applied for, subject to Rules and Regulations.	

As the ellotment of space must depend upon the number of individual applications, it may be found necessary to proceedence to those made at an early date. It is therefore requested that this form may be forwarded before

Signature

Date -

LAURENCE R. FYFE, Esq.,

Secretary, Jamaica Exhibition, Kingston, Jamaica.

On the allotment of space being officially notified, Exhibitors will be requested to furnish the necessary information for the Catalogue.

Intending Exhibitors are requested to mark under the Heads set apart for the purpose the Group or Groups in which they propose to exhibit, with such details as at the present date they are able to supply.

Full particulars will be found under the Appendix to the General Restlations, "SYSTEM OF GENERAL CLASSIFICATION OF EXHIBITS."

GEOUP I. Baw Materials. GROUP II. Implements for obtaining Raw Materials. GROUP III. Machines and Processes wed in proparing and making up the Raw Materials into Fluished Products. GROUP IV. Manufactured Goods. GROUP V. Education. Gnove VI. Pine Acta Literature and Science.

ORDERED that the foregoing papers be published in the Supplement to the Gazette of India for general information, and that copies be forwarded to the Local Governments Central Provinces. Madras. Burma Assam. Bombay. Bengal. North-Western Pro-vinces and Oudb. Punjab. and Administrations noted on the margin, with a Morth-Western Provings and Oudb.

Hyderabad.

Hyderabad.

Ajmero-Merwara.

Ished in the local Gazette, and that such steps may be taken to make it known amongst Merchants and Manufacturers as may

be considered desirable.

(True extract)

E. C. Buck, Secretary to the Government of India. PROPOSAL FOR THE CONSTRUCTION OF WATER-WORKS AT NASIRABAD FOR THE SUPPLY OF FILTERED WATER TO THE INHABITANTS OF THE TOWN.

MUNICIPAL DEPARTMENT—MUNICIPAL. Calcutta, the 14th March 1890. RESOLUTION.

READ-

A letter from the Commissioner of Dacca, No. 853T, dated 17th February 1890, with enclosures, and also previous correspondence on the subject of water-works at Nasirabad, the head-quarters of the Mymensingh district.

It appears from this correspondence that Rajah Surjya Kant Acharjya Bahadur of Mooktagacha, in the district of Mymensingh, promised to make a donation of Rs. 50,000 to the Municipality of Nasirabad, which is the head-quarters of the Mymensingh district, to perpetuate the memory of his wife by some work of public utility in the town. At a public meeting held in the town in April 1888 the question was discussed, and it was unanimously resolved that this donation should be devoted to the construction of water-works for the Municipality. The District Board of Mymensingh then decided to make a grant of Rs. 30,000 as a contribution from the public, but as the funds would still be insufficient to carry out the works on a proper scale, the Rajah came forward and doubled his donation, which now amounts to one lakh of rupees.

The total sum available amounts therefore to Rs. 1,30,000.

2. The Lieutenant-Governor has been advised that there is no legal objection to the grant which has been sanctioned by the District Board. It has been pointed out by the Commissioner that the entire district of Mymensingh will benefit, more or less, if water-works be constructed in the head-quarters station; that persons coming to the town, on legal or other business, will directly benefit; and that if the result of the introduction of good drinking-water be, as at Dacca, to practically suppress cholera in the town, there will be one principal centre for the spread of disease removed from the district. The position of the Mymensingh Board is solvent. During the year 1888-89 it spent Rs. 96,583 on original public works and Rs. 20,669 on repairs, and the credit balance of the Board at the close of the year was Rs. 1,48,128. Under these circumstances, and looking to the importance of the scheme, the Lieutenant-Governor now accords his approval to the proposed grant.

3. The splendid donation of Rajah Surjya Kant Bahadur merits the

3. The splendid donation of Rajah Surjya Kant Bahadur merits the warmest approbation of Government, and it affords the Lieutenant-Governor the very greatest pleasure to acknowledge his beneficent liberality. The Municipal Commissioners of Mymensingh have already resolved that the works should

be called after his wife's name, the "Raj Rajeswari Water-works."

4. It has been estimated by the local authorities that the construction of the works can be completed within the limit of the sum of Rs. 1,30,000 available. The preparation of professional detailed plans and estimates should therefore be undertaken without loss of time, and instructions will be issued through the Public Works Department to the Inspector of Local Works to afford the Municipal Commissioners such advice and assistance as they may require. If necessary, a special officer will be placed on deputation for the purpose.

5. It is estimated that the cost of the maintenance of the water-works when completed will amount to at least Rs. 6,000 a year, and this sum the

Municipality has resolved to raise by the imposition of a water-rate.

ORDER.—Ordered that a copy of this Resolution be forwarded to the Commissioner of Dacca, and to the Public Works Department of this Government, and that it be published in the Calcutta Gazette.

By order of the Lieutenant-Governor of Bengal,

H. J. S. COTTON,
Offg. Secretary to the Govi. of Bengal.

Rainfall, Weather, and State and Prospects of the Crope.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 15th March 1890.

No.		District and da		Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
				1	
RNG	AL.	Western Dist	riota.		7.2
(1	Burdwen Mar Culna	ch 15, '90	0.62	Weather—rather cool, but getting bot during the day. Prospects of crops favourable. Sugarcane is being pressed. Priors of common rice:—
		Cutws		0-51	Burdwan
1	9	Bankoora	,, 15, '90	0-66	Weather—sessonable. Bubbi harvest is finished, and sugarcane harvest mearly so. Rainfull of 9th and 10th bas greatly facilitated preparation of field for next rice sowing. Common rice 20 seers per rupes at Sudder and
. I	3	Birbhum	15, '90	0:34	194 seers at Bishenpore. Weather—seasonable. State and prospects of crops good. Outturn of sugar- cano 16 annas. Price of rice 164 to 20 seers per rupes.
BUIDWAR DIVE.	4	Midnapur	., 15, '90	0-44	Weather—seasonable. The rain has done good to the few crops on the ground. Prices of common rice:—
Besi					Budder
	6	Hooghly Serampore Johanabad	., 15, '90	0·24 0·25 0·50	Weather—seasonable; cloudy and showery. All crops promise well. Prices of common rice: Sre. Sudder 124
		Howesh Uluberia	, 15, *9t	0-22	Berampore 16 Johanshad 171 Weather—seasonable. State and prospects of crops good.
•		Contral Die	lrieta.		
	1/2	\$4-Perghe. Ma	rch 15, '9	0 0-41	Weather-rather warm. Prospects of crops good. Lands being prepared to
DIVE.	7	Nuddea Kooshtea Meherpur Choosdenga Ranaghat	, 16, %	0·19 0·22 0·25	was. Price of common rice 14 to 15 seers per rupee. Weather—cloudy with slight rain. Prospects of the crops on the ground a favourable. Harvesting of green, linseed, and pulses is still going of Cultivation of land for early rice proceeding.
DENCA	8	Kuoolna	., 15, '9		Weather-getting warm. Condition of crops on the ground good.
Passin	9	Jeseord Jhenidah Magure Namil	,, 16, '9	0.20 0.15 0.15	linseed and peas going on. Average outturn of kales and mustard 9 as 5 anuas respectively. Prices stationary.
	10	Moornhedahad Jungipore Kandi	,, 16, '6	0°05 0°19 0°10	Fine weather with passing clouds. Getting got. Harvesting of rubbi crop proceeds. Lands are being ploughed for bhadoi sowings.
	11	Dinegopur	., 16, 1	DO NH	Weather-hot with strong west wind. Ploughing going on. Rain wante Sugarcans being pressed.
	12	Rajshahya Nattore	., 15, 4	0.03	Weather seasonable: growing hot. Rain wanted. The few remaining crop on the ground are being rapidly got in with generally fair outturn.
=	13	Rungpur	,, 15, 1	0.03	Weather sultry days, but cool nights; cloudy in evenings. Hain much wants for one and jute cultivation. Some fears of drought entertained.
HAR DIVE	14	Hogen 1	., 16, 1	oc Mil	Weather—seasonable. Sowing of ans paidly in some low lands has commence Standing crops promising Khesari is being reaped. Sugarcane is being cut. Common rice selling at 18 sears per rupee.
RAJORANTE	16		,. 16, °	90 (0*05 90 201	Weather—cloudy at times. Outturn of rubbi crops fair. Rain wanted for cheens and know crops and for ploughing. Price of rice rising slightly. Weather—fair. Wheat and barley progressing favourably. In Termi lands a
				-	being ploughed for jute and bhados paddy. Prices of common rice: Srs. Darjeeling 12 Kurssong 181 per rupee.
	12	'alpigores	18,	Pr Wil	Weather—hat in day, sool at night. Winter crops being reaped, and a average outturn expected. Ploughing of land for cultivation of bhad going on. Rain much wanted to enable bhader sowings to be made. It change in prices.

	No.	District an	nd date turn.	of	Rainfull at Sudder Station in tuches.	Character of the weather and state and prospects
В	FNG	Al-concluded.				
	b.	Eastern 1	Dustrict	4,		
			March 1		0 0.08	Weather-fine and getting warm. No rain in Naraingungo. Musterd and pulses being gathered. Cultivation going on for early crops. Boro paddy thriving, but rain wanted. Fodder available. No special change in prices of food-grains. Common rice 13 to 15 seers per rupec.
DACCA DIVE.	1	9 Furrerdpur	,, 1	15, '90	0-14	Weather—getting warm. Lands being ploughed for jute and paddy, but rain wanted. Crops on the ground doing fairly well. Price of rice stationary.
	20	0 Backergunge	0.0	15, '90	0-47	Weather—cloudy and warm. Prospects of rubbi crops fair. Ities selling at 183 seers per rupes.
	23	Mymensingb	., 1	15, '90	0.02	Weather—seasonable, but strong westerly wind blowing for some days during the day time. Prospects of crops good. Hore crop doing well. Coarse rice solls at 13 score per rupse.
Reg.	22	Chittagong	, 1	15, '90	0.65	weather—seasonable. Rain is still wanted for winter crops. Common rice selling at 17 seers per rupse.
No Divy	28	Noakholly	1	15, '90	Nn Nn	Weather—warm and cloudy. Harvesting of rabbi crops nearly completed. Preparation of land for any going on. Rain is much wanted.
CMTTTAGONG DAYS	24	Tipperah	1	15, '90	0-22	Weather—cloudy and cool with wind. Boro paddy thriving. Aus, jute, and fill being planted. Chillies tipening. Prospects good. More rain wanted for crops.
Can	25	Chittagong Hil Tracts.	11	200		Report not received.
				1		~
BE	HAR	Hill Tipperah				Report not received.
	26	Patus	,. 16	5, '90	Nii	Weather—cool at night and hot during the day, with occasional clouds and atrong winds. Harvesting of rubbi in full progress. Collection of oplum continues. Prospects favourable. Prices of food-grains slightly falling.
	27	Gya	16	5, '90	Nil	Weather—seasonable. Rubbi copps are being cut. Opium is being extracted.
	28	Shahabad	., 15	5, '90	Nil	Prices of feed-grains stationary. Weather—cloudy with high winds. Harvesting of wheat and barley going on with fair cottorn. Collection of opinus nearly finished with a similar result. Sugarcane being transplanted.
ra Dryze.	20	Durbhunga	., 16	5, '90	Nii	Strong west wind prevailing Harvesting of rubbi in progress. Outure of wheet and impetered estimated at 12 annas on an average. Paddy and many being sown in thur lands. Extraction of opium still going on, prospects
PATEA	10	Mozufferpur	,, 15	. '90	Nil	remain good. Common rise selling at from 19 to 21 seers per ripee. Strong west winds. **Bubbi crops are being out. Indigo sowings completed. Resowings were necessary only in a very few cases. Wheat estimated to give from 12 to 16 amas outturn. Collection of opium nearly completely cloudy and windy weather has not been favourable; outturn will probably
	81	Sarun	,, 15,	, '90		be below average. Weather—warm with west wind. Harvesting of rubbi in full swing; outturn favourable. Raker is a full crop and is being cut. Collection of opins in progress.
1	82	Chumparus	15,	, "90	Nil	Weather—warm and clear; west wind provailing. Harvesting of rubbi and collection of opium progressing. Indigo sowings nearly finished. Manyo flowers healthy. Common rice solling at 17 seers per rupes.
1	88	Monghyr	18.	'90	1	Weather—generally cloudy with strong westerly wind. A few drope of rain fell on the night of the 14th. Harvesting of ranhs crops going on. Prices of food grains almost stationary.
É	34	Bhagulpur	15.	. *90	261 V	Weather—seasonable. Rubbi crops doing well. Barley, wheat, gram, masur, and ruker being gathered. Outturn of linaced some 8 annas.
PORR DE	35	Purosah	,, 15,	'90		Wenther—hot westerly winds with cool nights and mornings. Rubbi crops doing wall; harvesting commenced. Proparation for bhadoi progressing, and kaom and other millets being sown.
BEAGULFORS DIVE.	36	Maldah Shibgunge	., 16,	'90	0.09	Weather—warm and cloudy. High west wind provais. Sight rain on three days of the week. Harvesting of rubbi crope began. Boro transplantation nearly over. Rain has done some injury to mango blossoms. Price of
- 7	87	Southal Perghs. Desglur Golda Jamtara	, 15,	190	0-15 0-05 0-40 0-29	Common rice stationary. Weather—occasionally cloudy. Getting hot. Harvesting of rubbi nearly over. Little or no crops now on the ground. Sugarcane doing well. Outturn of rubbi about 10 or 12 annea.

7	Tu,	District a	nd date of		Rainfull at Sudder Station in inches.	Character of the weather and etate and prospects of the crops.
) H I	SHA:	, 4				
	18	Onttack	March 15,	500	0.82	Weather—seasonable. Tobacco is being reaped. Dalwa rice doing well. General prospects continue good.
CHIEBA DIVE	39	Paoree Khoorda	,, 14,	THU	0·15 0·55	Weather—cloudy with high wind. Lands are being ploughed for the ensuing sarad crop. Mang is in pod. Dalsa crop is in ear. The rainfail during the week has done good to mange and mang crops.
	40	Balamere	,, 15,	'90	2.64	Weather seasonable. The recent rain has been most favourable for tilings and posture.
H)	ATC	NAGPORK				
	South	h-West Fronts	or Avency.			
	41	Hasaribagh	D (-		0.36	Weather—seasonable, becoming warm Sugarcane is being transplanted. Poppy yielding well. Mango and modus promising.
Naurona Inta	43	Lohardogga Palamow	,, 16, (up to 10th		0:50 0:90	Wenther—cloudy, Reaping of rubbi crops almost completed in the head- quarters subdivision. Rain and cloud have done some dumage to standing rubbi crops and also to mango and subma in the Palamow subdivision. Estimated damage is four annan.
CHUSAN	48	Singhboom	., 18,	, 190	0.84	Weather-warm. Prospects of crops good. Mohan and mango somewhat damaged by rain, and 8 to 12 sunsa crop expected.
	44	Manhhoom Gavindpo	., 18	, 90	0.89	Weather-warmer; a little cloudy. Wheat, barley, and gram ripening. Average outturn 10 summs. Rice is selling at 20 to 23 seers per rupec.
				••		age decided to state a state of the state of

Published for general information.

"CALCUTTA; REVENUE DEPT., The 18th March, 1890. P. NOLAN, Secy. to the Goet. of Bengal. The following Statement shows the Quantities of the Principal Staples of Traffic imported into Calcutta from the paring the month of December 1889.

IMPORTS INTO CALCUTTA.

			PO	OD-GRA	ING.			PIBROVE	Propuots.	- Qui	BEDS.				Bt	man.	T
Whence unparted.	Rico.	Padd	Total	Wheat	Gram and pulses	fend-	Total.	Jule, raw	Gunny bags.	Linnsod.	Muntard seed.	Tea, Indian	Cotton,	sijik, rom,	Refined.	Varedned.	Unmanufac.
Banort.	Mds.	Mds.	Mds.	Mds.	Mda.	Mds.	Mds.	Mdu.	No.	Mds.	Mds.	Mds.	Mds.	Mds.	Mda.	Mds.	Md
Hurdwan Haserishaem Matnapare Haserisy 24-Persumman Khuma Jessare Masershedabad Dimasepore Rajalinaye Bajaranye Bajaranye Bajaranye	B 1110	6,901 6,763 18,594 18,594 18,900 6,625	1,01,740 3,33,634 8,718	65: 31: 1,66: 12,81: 1,66: 3: 1,78:	1,023 978 5 56,439 1,602 4,040 1,745	273	1,38,916 3,15,1682 3,76,1601 5,36,612 73,835 19,977 10,157 85,145 166 5,7161 5,6450 1,7776	4,904 R4,671 1,44,513 19,510 7,001 20,700 21	18, 885 7, 395 1, 000 182, 940 377, 925 3, 590 105 149 205, 790 87, 059 6 88, 455 111, 245	657 067 1,651 6 12,583 333 1,380 325	1,581 dos 74s 1,113 6,280 432 70 5,282 9,384 1,102	18.61 :	5,048 218 30 1	188 215 83 285	16 4,200	280 2,824 82,016 84,000 19,103 7	1,49 1,67 2,70 1,49
Darjaeling		Miles (Fasi	775 8,030 1,58, 23 77 8,366 4,201		1,024		1,805 10,257 1,58,35 158 8,900 4,701 15,435	1,1 8,1495 5,34,974 +,35,601 5,725 8,35,986	37.25	173 801	1,111 2,616 1,500 2,269	24,272 21 347 1,647	1,842 144 858 8.975	8	100000 100 00 101 07 101000 101000 101000 101000	200000 000000 00000 100000 100000 101000 101000	1,80
Total of Bengal	14,66,687	52,715	14,41,684	23,53	74,649	2,330	15,42,430	23, 57,005	1,914,5%	15,687	30,251	60,205	8.771	884	4,245	44,033	27,78
Pasma	2,483 86 	*****	2, M1 64	3,039 9,73 6,59	1,000	3,949	9'0681	34	1,610	88,728 9,065 9,865 772 87,313 14,808	3,955 1,621 23,634	1	1	7 84	######################################	9,048 23,1484 18,1486 5	31: 10 5: 13:
humparus humparus humparus humparus humparus humparus humparus humparus humparus humparus humparus	14,916		6.0 7.657 25, 26 425	1 1, 600 27 25 2 386 4 300 2 5 500	1,896	7,67% 7,67% 585 2,638	1,353 5,550 23,779 6,050 6,353 47,015	14 25,764 14,24 9,130	8,665 70 1,0%	1,861 1,861 1,961 1,967 1,960 3,761	6,786 -1,-79 29,717 18,647 -1,8-7 9,8-5	234	******	111111	00000	32	310
naha. Total of Behar	50,170	5.5	50,556	79,764	129,745	19,210	Y,78,800	77,211	7,193	1,19,863	1,03,495	255	87	3/6	701.090	53,304	1,636
ORINGA.		1															
luttack	545 67,145	4,549	545 67,191		165	*** **	70,156	1 25 : 24,707	60-	1,277	nie ,		Da	· · · · · · · · · · · · · · · · · · ·	*****	*****	50
Total of Oruse	67,085	4,519	70,510		165	-	70,701	201,030	600	1,877	918			p			5/1
CHOTA NAUPORE.													1				
fararibath	4,211		4,221	180001	1,100	2,1	4,242		1,294	******	1,717	597		*****	*****	3	***
lotal of Chota Nag-	4,421	111	6,441		1,100		5, 141		1.71)		1,717	597					
the Lieut-man	15,20,771	87,549	18,00,027	1.01,100	2,02,000	21,377	14,97,393	34,00,249	1,684,000	1,39,587	1,39,354	41,087	8,798	983	6,248	1,02,831	29,610
runk Provinces. sanin orth-Western Pro- vinces and Ouds.	19 19		10 10	71,904	66,149	8,000.	19	23,709	A26	44,045	23,251 15,43	535	300 4,34,004 4,679	586 <u>8</u> 2	fin-	1,563	- e- B
uniah entral Provinced ajmitana and ventral India.		******		64 205 7,261	1.554	\$.7 6) 	64,172 8,715 50	· · · · ·	7,400	904	****	610	8,471	19	000000	******* ******	
armalı tharrar	- Military -	*****	131	*****	4,033 9421 10		4,6533 6625 284		500	1007		1	1,878	ear ,	5,000	499711	837
rand Total 1890 I of Imports in Dec. 1880 I			15.05,995	2,96,552	-	35,600 19 27d	10,81,711	25 14,986	1,992,970	1,85,536	1,77,007		1,56,415	1,530		3,04,216 p1,721	20,132

One manns of saddy a equivalent to 25 seers of rice. | | Exclusive of bags obtained by local mannfacture.

The Sea-borne Trade of Calcutto in these Staples during the month of December, 1889, was as foliows:-

CALCUITA-			1													
Indian ports,	3,03,876	30	3,06,894	1 1 1 1	60	107	3,00,954	122000	1,714,800	*****	37,380	Own	111111	200 000	1,448	122579
ther ports is Bantaty	7,799	1,002	3.628 3.628	640	10,000	1413.71	12 27,536		5,0 to 625,700	*****	*******	206	10110	80	(i0)	100+00 120+04
uriush	1,13,666 6,071	250	1,13,947 6,071	8,510	2,704	3,604	1,16,553	4/46 50%	479,238 1,067,300	******	19	68	70	11	99 7ul	701
ports	1,311 342		1,311 .	30	2,210	400	8,003 1,500 382	****	880,200 75,1890 41,750	Design	100 × 00		8	> + + + + + + + + + + + + + + + + + + +	965	1,686
tal of Inter-	6,90,000	1,982	4,97,537	4,217	43,476	3,604	8,48,383	1,956	4,763,676	244100	27,349	880	79	61	- A,213	2,387
Vervige ports - United Kanadom Other Foreign	04.708	*** ***	64,793	82,005	23,165		1,70,063	14,02,724	961,610	3,18,879	1,07,788	1,80,003	4,704	254		,,,,,,,
torrin	8,33,392	2,960	1,12,501	15,1.67	14,948	395	2,82,098	5,94,513	6,950,800	20,247	1,18,600	5,900	40,203	811	203	888 177
trade Total	8,38,964	8,501		80,241	30,110	345	5,02,160	19,97,237	7,833,500	2,40,126	2,10,52%	1,01,599)	52,967	1,000	203	*****
of Experis	1	4,222	7,76,923	88,656	6.5,630,5	QUIE, E	9,50,073		12,500,070		8,05,077	1.02,070	A8,046	1,150	8,516	2,357
		1	1	1,17.121	70.500	21,017	9,94,910	80.14,722	16,470,226	0.19.501	891	1,50,720	84.004	1,099	1,074	977

The following Statement shows the several Routen follows t by the Trade in the Principal Staples of Traffic imported into Calcusta during the month of December, 1889.

IMPORTS INTO CALCUTTA.

		Fu	OD-ORAIN	۵.		Pinnova l	Monucia,	OTEM	EEDS.				80	GAR.	Ton	ACCO.
Remotification of Boutes.	Rice.	Paddy.	Wheat.	Gran and pulses.	Other food-grains.	Jute, raw,	Gunny- tesgu.	Linneed.	Mustaid	Tea, Indean.	Cotton,	filk, rsw.	Re- fined.	Un. refined.	Uniment-	Magu-
	Man.	Mda.	Mds.	Mda.	Mda.	Mda.	No.	Mds.	Mds.	Mdn.	Mds.	Md4.	Mds.	Mds.	Mdn.	Mds.
y country boats river steamers East Indian	8,47,248 50,528 5,14,788	39,235 449 11,360	81,436 1,94,079	87,678 1,772 2,05,184	8,460 26,936	9,01,014 2,93,401 33,466	839,920	18,050 1,761 1,56,758	41,0%s 17,01% 1,01,246	1,14,954 B,115	6,754 1e.5 1,39,276	205 4 058	1,848	32,067 55,381	13,678 191 916	1,613
rail Rasterti Bosseni rente Railway.	10,070	0.2	1,037	22,477	1	11,43,493	1,311,660	4,090	16,776	19,989	1,047	7.541	84	2,7.59	2,400	**
told	41,795 62,726	2,274 4,550	494147	304 5,071	*****	1,01,180 21,746	84,500 8,500	1,277	475	1,466	10,431	31	2,497 5,709	14,425	4,843 387	967 611
and Total of (1489	15,39,427	87,849	2,24,552	2,92,776	35,400	25,14,366	1,932,870	1,84,586	1,77,097	1,58,454	1,56,425	1 5790	9,511	1,06.216	29,163	3,603
imports in Lissa .	11,66,474	1,01,034	1,43,729	1,90,030	19,276	21,11,295	2,418,287	4,81,696	83,961	1,28,388	1,55,990	2,191	83,763	91.721	16,185	29,484

The following Statement shows the Values, Quantities, and Numbers of the Principal Staples of Traffic exported Inland from Calcutta during the month of December, 1889.

EXPORTS FROM CALCUTTA.

	Cotton pin	m-minis.	Cutton t	WHI.		Comme		Cuttonpie	ioe-griode,	Cotto	n Lwist.		
Whather experted.	European.	Indian.	European,	Indian.	Salt.	Gunny- bags.	Whither exported.	Euro- pean,	Indian.	Euro- pean.	Indian	Salt,	Gunny-be
			1				CHOTA NAGPORE.	Ma,	Ha.	Mds.	Mein.	Mda	No.
	lin.	Ru.	M du.	Micin.	Mda.	No.	Bazaribagh	46,053 66,655		31	79 1,014	6,315	8,44 2,53
Винодь.							Total of Chota Nagpore	1,32,078	3,630	27	1,093	12,028	8,86
ing-lwm/l - This was D - This was D - This was D - This was D	2, 65,507 1,79,227 2,67,527 54,772 1,65,645	2,310 1,940 1,285	480 %3 8,307 8,10 201	1,5%4 895 120	23,467 10,463 23,465 2,446 24 560	81,920 177,555 39 (m); 85,611 17,442	Grand totat of supplies into the Provinces under the Lautement-Governor of Hongai	79,74,294	27,658	12,186	16,317	6,29,856	14,79,46
and the and the state of the st	5,1,592 75,416 1,20,141 96,330		2,4435 73 474 284	36	23,370 3,411 24,851 d, 650	78, 311 665 1,568 16,143	Assum North-Western Provinces and Oudh	4,78,837 27,58,795	100	835	(BP)	21,904	2, 14
" shirthy as	1, 67, 41/2 1,07, 555 4 464, 5701		115 17 243		9,738 12,173 13,318	18,200 29,400 7,710	Punjati Central Provinces Rajintana and Central India	57,900 5,89,860 57,884 27,906	14.190 3,080 110	2,963 634 262 200	696 12 7	24,329	387,27 409,5% 200,9%
er seeligage	1,72,668 1 *4,212 2,23,967 1,20 *67		270 1 16 172	d	8,748 81,710 4,691 9,510	71,675 1,08a 888	B rar Nepai Nesain's Tarritory Hombay	815 1,197	Ho	17	*****	100444	48,71
tendiparo	80,45,923 9,17,996 9,46,030	330	1,30° 343 047	74	34,978 44,704 92,900	360. 3610 1,810	Madrae Pradicherry Brough	22, 600 1, 500 2, 63, 1,09	\$6.0	395	8,565	******	1,720,10 995,62 76,60 2,667,30
contain and	1,93,673	******	17		43,63% 459 865	133,050	Other places	6,585	3, 194	19	H, set		43,75 7,532,50
aki oily	540		84 :		8,500		Grand Total of 1989 . 1 Exports in Dec. 1882 1		69 (35)	19,667 26,012	31,994	6,76,120	14,705,044 16,458,817
Ionioi Bencal	44,58,008	9.076	11,08;	9,00n	3,90,145	711,900	The Sea-borne Trade of C	aloutta in	these St	lapies de	uring th	e wonth o	f December
HESSAR.		1					IMPORTED INTO CALCUTTA-	Ra. ·	Ba.	Mds.	20.0		
tha aluminad sufferpore	1,60,798 1,07,150 5 20,922 1,23,150	7,1420	#10 117	1,041 827 48	25,127 15,035 15,035	137,565 24,985 46,410 2,483	Prom Foreign Ports— United Kingdom	70,80,124	10.00 ·	8,947	Mdo.	Mds.	No.
chunge mp mphorum	2,91,600 2,94,500 3,74 mm 1,9-,067	550	1 27 13	70 11 391	17,444 13,688 10,608	49,638 12,076 10,885 28,453		72,21,719		1,397	-	7,41,198	******
notatiparie I ritenda telah	3,55,596 1,04,178	7,580	312	378	23,355 18,352 11,035	105,390 24,565 4,450	Pron Indian Ports— Rombay Madras Other ports in Madras	1,76,224 29,550 70.1			10,785	******	7,400
form of Behar	29,13,240	24,750	259	\$69 5.540)	2.01.339	542,465	Other Indian ports	13,300	140			101.10	500
-				-			Sindh	1,32,200	-		1,190		8,500
()mrnna	1		- (4,54,0:1		-			
ORRENA.	14,500	*****	75	5,590	12,700	44,550 175,190	ports in Dec. 1888 11	,022,975 :,				41,109 75,701	83,600

The following Statement shows the several Routes followed by the Trade in the Principal Staples of Traffic exported from Calcutta during the month of December, 1889.

	COTTON PER	CH-GOODIL	COTTON	TWIST.	N-IA	
BPECIFICATION OF ROUTES.	Huropent.	Indian.	European.	Indinu.	Balt,	Gunny-bagu.
	Ra.	Ra.	Mds.	Mda.	Mds.	No.
country brate five alectives rail Shell Indian Stallway Eastern Bengal State Sailway tea	06,29,958 85,10,738 1,85,632 6,65,524	6,930 650 48,840 1,985 4,084	3,343 4,285 5,647 5,345 572 3,136	784 9,810 89 61,341	2,75,1110 NG,768 2,82,146 S2,453 ALCOS 15,662	181,097 58,263 4,708,080 178,77 8,665 12,598,075
Grand Total of Raports in December { 1800	1,20,64,106	517, (1010) 67, 7194	18,007 36,013	32,924	8,74,120 8,82,699	14.765,045 16,454,517

Statistical Department, The 12th March, 1890. P. NOLAN, Secretary to the Gort. of Bengal.

Meteorological Report of the Province of Bengal

									2.4	ATIO	DN OR6	BEVA	A. Lease					
			Atn	PRESE	ER.	W 130	ID.					Ten	PERAT	ver.				
Dinti	LICT .	Representative	Hear barnmetric	Yest restreed to	insten from men.	reesiing diese.	lourity.	behest daring	3	3	sower during work.		Male.	Venn matimum temperature.	Mean minimum temperature of week.	Mean darly fem- perainte of west.	Variation from normal mean of week.	
		1	2	1	10-11		2-	2"	1	<u> </u>	gab.	_ =	-		1	×	5-	1
Poorve	,. {	Paoree Gapalpare Faine Point	291879 201484 201574	\$918(4) \$118(4) \$918(4)	- 1-60 600	8 W W 88	257 425 274	8712 58-2 86 p	13, 14 %th 14th	Mar	72 0 75 3 70 1	183h 184h 184h	War.	90.5 90.1	75°0 76°0 72°0	80 0 81'5 75 8	-0.9 +5.4 -	
Cuttach		Critinak	29'8:1	20 904	- 1007	Cwlm	7270	9414	9th		Gire	8th		B.EM	71.7	91818	-1:1	1
1		Halasore	20 829		tH5		141'6	91'4	12th		61.0	14th		8410	67°H	77 9	-1.2	1
Balasore South-West !	Midnapare i	Sanger Island	29 964	29 891	-1983	westerly."	330)	16 2	13th		7016	101h		63 8	73 9	7876	~19	
South 14-Per	gunnalis 3					westerly.	1			& 12th	66-2	sch.		183.4	GN*5	80.0	0°a	i
Midnepore		Midnapore	29743	29"5551	- '075	8	804.3	94.3		Mar.	00.		Mar.					
Howran Houran Hooghly	the	Calcutta	29 676	29 N95	- 1079	Westerly	103 0	got 8		A 12th Mar		uth	64	101,16	67 6	77:0	-8.1	
Burdwan	**	Burdwan	22.4.77	20 180	-1000	Variable	61 0	981	uth		61 4	nth	0.1	1 49	07 8	78'6		1
Bankoors	+0*	Hankooia	£9°357	150°26 (5	- 088	W	4,99	9316	13th	••	0817	ath	**	88.9	46.3	77.3	-915	
Beerbhoom		Raneegunge	29:543	421 VVV	-1083	Westerly	6317	92.9	oth,	Mar.	600	11th		8× 8	435*7	77'8	-272	
Nest Burdus		lierhampore	391nu6	25/1978	- 065	W.	11416	951	14Lb	36 M.T.	86.7	ath	**	d #85	98.0	76'3	-1:0	i
Weersbrein has Nuclea		Krishnaghir	291836	221-561-6	=1962	W8W	119%	92.2	1 111		861V	5th		8515	M 2	17'5	-0.1	1
Jessore	,	1.	291954	22 685	-1070	8W	3510	piri			62.2	Hala,	1080	62.7	G7 6	77'0	-1.3	i
Khoeina		Juanore .					1	1	1	Mar.	03.9	nth	Mur.	87 12	152.15	77.5		-(
(hittagous		Chittagons	29 817	Attentions.	- 10(6)	Variable	95'7	PS.0	rations	101 700		170-0-	4.	Gri		***	+11	1
Oblitacing II		Demagara	29 983	ENLHERE.	— °063	SUF	101'6	57'S	9th.		6914	10th		15\$1 p	db D	77:6	10	À
Backersunge		(inrina)	29 983	297916	- '063	SW SW	101'6	87'8	12th	Mar.	00.6	Nuh	**	82.3	6718	76'5	-0.9	, ,
Nonkholly	***	Nonkholly	29°872		'079	BW BW	102:1	90.0	isth	61	61.0	10th	**	P.2. 21	66.4		-1.0	1
Furroedpore	-1	Furreedpore	29 856 29 856	29 879	005	8W	139 (1	91*1	17th	61	60 B	loth		8716	40 V	76 7	-1.9	-
Dacca	** **	Dacca	29 856	29/854	- 002	Bouth-	MS'S	88.4	1237	27	88.0	ath	**	84.8	66'3		-1.5	- 1
Commidiah	##* ··	Committals	1	25/1875	-116	menterly,	82 9	9019	1617		87 0	BELL	. 1	8519	61.9	73.9	+01	
Mymensing).	per Ber	Memensingh	201761	591846	-1062	Westerly,	12316	9318	1Stir		20,402	ioth	, 1	HS-th	63 0		+1%	î
Bogra	607	Hogra Samulation	291814	\$9.961	'664	5W	51 7	17210	1		84.9	8th	1 1	8811			-00	
Pubna	40-	Rampers Beau	20.912	281,629	— ы\$6	NW.	107 8	91'8	lath:		00.9	toth		82°E	63 9		+1'1	-
Rajohabye	444 21	heads.	gt:774	19 H57	-11363		77 2	98'0	137112		57'5	B1 b		92.4	60'6		4 6/2	1
Naldeb Diserentia		itinagenore	19 257	gyradb	- 131	8 W	158 6	920	130h		58.2	Ioth		88.9	\$0 G		0	
Dinacopore	66 · · · · · · · · · · · · · · · · · ·	Rungpore	SP 724	29 6.7	103	W	11877	9016	13th		84 0	19th		60.9	5614	1	1	
Julyaguree		Rempore	go 1808	29 835	- 180			4572						66.1	52.6			
Couch Behar	- 14 F	Julysgoten							1-62 %	**	40.4	10th						1
Darpeoling Bil	Tracis	Duryanisms	22 65C	-		WSW	21314	6010	1 ás h		26.5	10th	**	29.8	88.2			1
Paracab North Bhagui	-	Pursont	80 709	zirbe.	- '115	Mouth- westerly.	154.7		18th	,.	6215	stb.	Nint.	86 1	67:4	71.7	-1.0	
Monufactions	7.4	Mozufferpore	municipal (291743	113	WoW	18414			as subpe				Bell 141		9	,	1
Durbhungs	b #*	Durbbungs	29°670	201846	-1113 - 00:	Waw	262.9	8914 North		Mar.) Alam	ath.	2	80"0				1
Champarita		Mothers	29°665	291851	003	WNW	17977	91.3	13th	9.5	WILD WILD	8th		85'8	89.0			1
Asrez	401	Chupra	29.001	20 491	- '076	B,-wly.	104.4	01.1	13th	10	6100	lota	0.0	90.0	67.5			4
Shahabad		Du bren Duner Arrala	29 681 29 681	The ste	- 076 - 071	W W	1010	81.9 81.9	, 18th	00 00	01.0 04.3	loth loth loth	4.0	80°8 87°8	0.5'3	76'7 75'8	+01	7
Gya		Gya	29 603	291486	000	South- westerly.	10015	Stre	13th	4,1	pout	10th	0.	871	64.1			
Patna		Bankspore	EB-029	29'164	100	South- nesterly.	10016	91.0	18th	20	60.3	10th	**	107 6	63.8	75'8	+0.1	1
waith Rimpul Monga) I	pute	Bhaguipere	391678	ED-941	-100	Calm &	ערטפ	93.8	18th	98	67:0	10th		8.88	65'9	76'2	+9*7	4
southed Person	e Laurai	inomia	29*380	20-872	-'071	Weaturly	95.2	5811	täth		89'5	8th		86.0	03:4	761	-1'3	1
Hamribach	44 44	tissaribegh	171952	20 500	'082	Westerly	176'B	86'2	1.71 la		'88'9	loth		51 8	61.9	\$1.6	-8.0	4
Leharmunga	** ***	Basahaa	37 72¥	29 897	-1079	Variable	99°G	4375	146h		87'4	108h		80*9	8*00	20.8	-29	4
Bingblicom			29°100	29-166	-0106	WaW	40.0	9816	18th				**	69.7	06'1			1
	1	1	-	-	-	W 0.11	-	20.01	Libbon	- 11	6417	11th	11	90	-	1		d

* Means of five days. If Means of six days.

The hormal means of air pressure and temperature are the arithmetres average or means of the reading during the same period for the less than arithmetres average or means of the reading during the same period for the less than arithmetres average or the arithmetres average or the reading during the same being presented by 10. A clear sky is denoted by 0 and an average of the results in that district determined from the returns sent in by the substitutional station for the period in question during the period of the substitution of the period in question during the period of the substitution of the period in question during the period of the substitution of the period of the substitution of the period of the substitution of the period of the substitution of the period of the substitution of the period of the substitution of the period of the substitution of the period of the substitution of the period of the substitution of the period of the substitution of the period of the substitution of the period of the substitution of the period of the substitution of the period of the substitution of the period of the substitution of the substitution of the period of the substitution of the period of the substitution of the period of the substitution o

for the week ending Friday, the 14th of March 1890.

					0 4		DISTE	UAL OBS	HEVATIO	248,						
	ik.	a di						RAIN	PALL.							
	nad amou for week.	of week	09 1	rung.	Bine	a lat of moi	ith.		o 15th May	1889.	Import	days.	Representativ	•	District.	
DI S A.M.	Average cloud at 8 A.M. for	Rain'all of	Wean for district.	Normal mean.	Mean for district.	Normal mean,	Fariation.	Mean for district,	Normal mean.	Variation.	Average Rum of rainy day	Normal un			7	
83 79 81	8·4 3·4 7·9	0:15 0:09 0:27		0'16		0:36			(86'61			0*5	Onto Inna	}	Poorse	***
79	8:7	0.84	0'75	0'34	0.76	6186	+0"90	67:17	88186	+18-82	210	0.0	Cuttack	-44	Cuttack	
84	1'0	2148	1146	0:26	1'53	0.99	+1'08	91.60	54"88	- 2.53	218	0.9	Balasors	044	Halasore	801
63	5'0	0.78	1'27	0.10	1117	0.27	+0.78	89191	64:37	-6:36	87	818	Sauger Island	{	South West Wid-	
TE	810	0 85	0.80	0.23	0198	0.63	+0'08	47781	58'30	-6.13	910	016	Midnapore	141	Midenman	alte
						0.00			EPHO	4.0000				(34-Persunnaha	0.4
88	6.3	0110	0182	0.84	0154	0.08	-0.14	66'66	\$3.20	+0.00	2.0	0:6	Calcutta	{	Hoorbly	0 a 0 e
80	813	0:37	0147	0.57	0167	0.64	-0'17	44'36	48188	-6°02	17	016	Burdwan	***	Burdwan	**
75	4.6	0.00	0174	0.88	0100	0.97	+0'88	84.83	88*89	+ 8.90	1'8	015	Bankoora	4++	Bankoora	80
78	4'8	0100	0.23	0721	0.83	0.32	+0'17	59'94	89195	+0 03	1%	0.9	Rancogunge	{	Hearbhase	50
25	3.6	0*05	0:06	0'34	0.18	0:00	-0.83	81.35	8174	0.39	0.3	0%	Berhampore		West Burdwan Moorehedabad	**
73	6'4	0.20	0.30	0.94	0:37	0.78	-0136	61 98	10.09	+1'07	116	0.6	Kriehflaghur		Nuddon	-
86	8.9	0°38	0'14	0.94	0.19	0.99	-0.ge	84'95	88 19	-0.38	1.0	0-7	Jennore	-	Jessore	010
	479	; 0°67	0.38	0.00	0.88	0.82	-0147	100 73	115'36	-14'63	i	0.3		··· {	Khouina	70
63	-	1001	0 45	0 20	V 04	1.81			8371	-14 08	1.0	0.9	Chittagong	0.04	Chittanong	do-
840	19814	Nil	0.12	0.17	0:16	0.88	-0.70	78:57	78 92	-0185	0.8	0-6	Domagiri	10.0	Chittagona Hilly	rect
81	0.3	drops	Nil	0160	0 13	1:67	-1.28	91'06	109:83	-18 7p	0.0	07	Noakholly	0.0 >	Backergunge	9.00
103	6'6	0.14	0.15	0186	0118	1'28	-1.10	62:36	88114	+4180	0.7	0'7	Furreedpore		Noakholly	844
90	716	0108	UIBS	0.00	0.95	1'19	-0:87	76'61	61199	+14'52	1.9	0.8	Daoga	0+0	Purreedpore	0.04
87	1*0	0.51	0188	0.78	0149	3104	-0.03	87 11	71 77	-14106	1'8	0.8	Commillah .	***	Tipperah	904
83	51	0106	Nil	0.38	0.01	0*86	- 0'83	86100	69:08	+19:72	0.0	0.7	Mymonsingh	901	Wymonsingh	001
63	2'0	drops	0.01	0 47	0.08	0:35	-0.90	60168	88:27	+7'31	918	0.4	Bogza		Hogra.	004
76	8.6	Nil	0.01	0.40	0.17	9.73	0.09	85'84	85:13	+0'41	0.2	0.0	Bernigunge	**	Pubna	Be
65	1.8	0104	0.01	0.19	0.04	0.43	-0.38	84:30	88100	(ris).	013	0.5	Bampere Beau		100	000
87	1:1	0105	9103	0'14	0111	0180	-0.00	39:90	85 91	-15'11	10	0.3	Maidab	244	Maidah	994
60	314	Nil	0:01	0 10	0.03	0.23	-0.10	67*00	58'10	-0 as	0-3	0.3	Dinagepore	804	Diparenore	84+
67	916	Nil	Nii	0°27	Nit	0.21	-0'61	65 67	76'77	+11'10	0.0	0.2	Rungpore	0.01	Rungpore	800
63	110	2211	NII	0.33	3013	0165	-0.46	117'78	112'10	+5 63	0.0	0.0	Juipigoree	{	Julnigana	00+
46	216	1911	Nil	0.99	Nil	9107	-0167	133.46	182:71	+10 78	0.0	0.8	Darjeving		concert majirs. ***	000
54	1:3	Nu	Nil	0.15	0.06	0*24	-0.10	75'05	80.93					•	Darjeeling Hill T	ract
0%		Ye M								+18'63	6.0	0.4	Purnoch	{	North Bhagulper	
			Nit	0107	0107	0138	-0'81	18'92	64 21	+671	0.0	0.3	Mosufferpore	***	Mosuferpore	004
82	F4	NII	NII	0.19	0.48	0.53	-0-17	68'17	43 23	+6163	0.0	0.4	Durbhunga	104	Durblinnen	400
85	413	Nu	Nil	0.00	0.19	0727	-0.13	40:20	67'46	+ 16:67	0.0	0.3	Motihari	***	Chumparun	004
78	818	direps	Bist	0.03	0.13	0.13	+0.02	40.86	43.90	-3:85	0.0	01	Ohupra	***	Sarun	001
84 83	417 814	drope	71	0.13	0'88	0'81	+0 07	60167	48'79	-0.83	0.0	0.2	Buxhl	}	Shahabad	440
60	414	0.08	0101	0.10	0.10	0.83	0*08	87197	43.39	-4198	0.8	0.2	Gya		Пув	0.04
46	810	Nil	201	0.07	0'11	0-16	0.09	43'61	47.80	+1**1	0.0	0.8	Bankipore	047	Patna	901
43	814	Nil	2011	0.00	9100	0.14	-011	48158	43188	-1.23	0.0	0.8	Bhagulpure	{	South Chagulpers	
00	810	9125	0'26	0.19	0.48	0132	+010	64'57	61'68	+2'99	3'8	0.4	Doomka	***	Southal Pergunna	àa
46	611	0.41	0.53	0.43	0.01	0.03	+0.08	43'64	81100	-8104	1.6	0.9	Hasaribagh		Hasaribagh	94 W _{\$10} \$
87	813	0180	{#1/80 U 20	0.23	2:85	0.65	+1109	46.18 70.18	80144 48131	4'48 9'15	27	6'0 6'0	} Ranchi	٠. ﴿	Lohardugga	240
76	6.1	0197	018	0.40	0:00	0107	+0'87	49'70	88:00	8:39	2.0	016	Chyobasse		Singbhoom	201

The variations are negative what the mean far the weak is less than the corresponding normal mean, and positive when grossler.

The variations are negative what the mean far the weak is less than the corresponding normal mean, and positive when grossler, the variations of rainfall the normal means. The assents of the district are the numerical average of the rainfall return received in the district, i.e., from total rainfall at the auto-including

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 14th of March 1890.

			BAINFALL.								PAL	1875	Average	1 9-5	1
Meteorological division,	District.	Station.	lay, 8th	y. 9th	y, 10th	ny. 11th	Wednesday, 12th March.	day, 19th ch.	y, 14th	Number of rainy days.	E S	Total rain- fall since 1st of month.	total rain- fall from lat of mouth.	Total rain- fall since 18th May 1889.	raini from ; May
	-		Seturday, March.	Sunday. March	Menday.	Tuesday.	Wedn	Thursday,	rriday, March	Nomi	Zainfall	1 . 5			
On1864	Pooree	Poorse		2 ex bits	*****	0.30	0.02	0.03	0'09	2	0.18	0.18	0.38	80°83 78'47	69
and the		Banpur False Point	*****	******	0.40	0.97	1.15		10.08	1	0.32	0.51	0.49	77'81	69 27 30 66
100		Gop Salpora	84444	200423	201402	2000	0.18	141.01					1		13
		Pipls	14000			1						A 100	0145	78*29	1
	Cuttack	Jagaisingpore Banki	424434 151134	******	0.80	******	222723	9*43	0'03	1 2	1.05	0°80 1'08 1 to	0.78 0.73	83°60 76°27	48' 80' 87' 84' 66'
	-	Cuttack Kendrapara	210335 220365	exexex execut	0.85	0.25	0.08	0.01	244423 265444	2	0.33	0.87	0°451	72'67	54
	100	Dharmesla	*****	******	0°50 0°18	0'34 0'20 0'30	0.12	247724	500 000	2			1	1	- 00
	Balasore	Salipere	450.02		9.36	0.88	******	reine	abbress	1	0°22	0.38	0:47	85*26	885
1		Bhuddruck	******	995111 985168	0.44	******	0.04	0'14	******	3	0.91	0.41	0°30 0°04	46'46	68° 68° 62° 50° 33°
		Balasore	NAMES	N94451	0.83	0.75	0.19	0.93	0.32	6	3.64	3°86 3°97	0.92	49°67 48°71	33
		Baripodah	112704	602.000	*****	0.82	0.75	MATERY	3.6.225	2	1.08	1.07	0.86	85'81	541
Buseal,	Midnapore	Contai Saugor Island	ARCEPE	### ### ### ###	1'05 0'42	******	0.42	0.73	NAME OF STREET	3 3 2	2°23 0°78 0°90	0.78 0'90	0.90	87°63	66° 66° 53°
		Tumlook	******	******	0.30	000000	0.80	0.26	ANTARK NATARK	2 3	1.00	0.44	28°0 74'0	46°70 44°50	801 801
T- 61		Ghattal Kukrakaty	AAAVAN SESSORI	*****	0°80 0°27 0°43	*****	0.43	1.00	*****	1 2	0'70	0°70 3°30	1	60°54 49°68	- 40
111	14-Pergunnalis	Garbetta	*****	******		*****	tvents.	. 500	******			0.00	7 7 10	1	
1000	44-1-019-017-0-0-	bour Coming Tous	*****	\$84.771 XXX240	0°37 0°23	*****	0.42	*****	*****	2 2	0'80	0 27	0.43	64°50 68°12	605
18."		Alipore Jail Barrackpore	121743	900001 100000	0.39	******	0.06	0.13	242447	2	0.99	0:41	1'01 0'83	60°61	58°
		Dum-Dum	******	STATES	0°28 0°18	75744	984 vac	ABREE	*****	1	0.18	0°37 0°18	0'81 0'75	65-80 88-80	531
		Buseerhat		XXXXXX	0.16	*****	35000	355100	*****	1	0.16	0.10	0.78	60104	561
	Howrah	Howrah Mobesreka	NAMES NAMES	200.000	0.20	*******	0.08	0.08	000311	2	0.23	0.38	0.27	56560	635 635
	Wassile	(Ooloberiah.			0-38			0.19	1-1-5	2	0.40	9.99	0.47	56'19	811
5	Hooghly	Serampore Hooghly	14510E	0.03	0.51	AARTS .	******	0.04	Newsta .	8 9	0'34	0°24 8°24	0'55	87 77 43 83	493
150	Bankers	Jehanahad	149198	0.34	0.18	1171-14	******	0,35	*****	1	0.93	0.92	0.64	41:84	1 1
1	Burdwan	Culpa Burdwan	1984 451	9.19	0.34	5+4284	******	000001 101-00	ENTERN CO.	2	0'37	0°37 0°51	0°73 0°56	47 62 43 62	601 691 491
		Cutwa Rancegunge	44.000 44.000 2.0000	0.30	9°48 8°19	PATRIC	041792 2417921 4417171	####### #######	201404	2 2	E 450	9°71 9°28	0.44	56'61 56'05	501
1000	Bankoors	Bankoors	Seesas	0.00	0.87	- series	201495	247164	******	2	0.00	1.19	0.83	81'90	53"
Object 1	-	Bishenpore	748-15	0.10	0.46	201201	SEA FOR	275.007	121 ME	8	0.36	0°94 0°59	0.42	88:43	531 531 62
15		Khatra	*****	505001 KAN-AN	0.25	211444	Swared 	21217X 20117X	- 181 HW-	1	0.39	0.34	0.40	66°81 45°48	88
Y2.7		Katalpore	******	0-40	0.01	******	name year managai	2014gy 451165	THE LAS	1	0'40	0°81 0°44 9°73	7	40°84 40°84 89°90	
100		Gangajaighati Raipore	*****	0.13	0.20	MARKET STREET	PRINCE.	0'53	000 000 100 000	8	6'63 6'77	0.73 0.22	1	50°12 64°79	
-		donamukhi	1011000	0:07	0.39	242577	*****	pagenne	100.000	1	0'38	0.20	0'45	89'65	535
W	Beerbhoom	Bh. Scory Hetampore	0.04	0.94	0.12	MARKET SALES	MARYES.	*****	24.762	200	0'38 Nil	9°80 9°07	0.18	-47°76 47°85	851
	- '	Rampore Haul	144444 124344	0'47	0.38	******	Person.	600.000 600.700	SHOUNG.	1	0.98	0°45 0°47	- 1	63'67	
	Nuddea	Murarol Ranaghat	Surger	0.49	0.06	322244	101101	25222	201244	8	0.82	0°35	0.98	80.00	481
-	THOUSE	Kishnaghur Choosdangs	24949X	inches detail	0.59	esection .	UPPAIR COLDER	200 TOX	danski special	1	0.50	0°30 0°25	0°49 0'82	43 18 80 11	471 535 491 365
	6.	Meherpore Kooshtea	*****	Secret Antiqual	0.10	-	242.605	0.19	******	1 2	0.38	0'29	0°94 0°87	\$6'80 \$6'80	
9 -	Eboolpa	Satkhira	****		MEN THE	******	REFERE	corner		NII	Nil	NB	0.92	84°84 85'46	57 631 345
		Begirhat Khoolna	******	renting provide	trained search	******	13-199 13-199	E11199	******	Nii Nii Nii	Nil	Nii 9:36 Nii	1,00	87-17	36
		Nakipur Rampal	******	201124 201124	244444	*****	135700 260464	Reves E	MARKET	ND	Nii	0.38	, ;	,	. =
	Jossons	Narail	255.205	6115 9730	0.02	20° 442	NA 24 44	******	779,000	1 1	0°18 0°35	0°15 0'35	0.60	64°25	47
2 -		Jhenidah	201100 201100 201100	present .	0.19	Desert Desert	******	410/05 110/05 200/07	*****	1	0.19	0°10 0 19	1'13	87°00	887 631 517 64
16. 11	2	Bongong	201201	0.59	0,02	200.00	22524	144.000	201114	. 3	0.30	0.30	0.71	47'94	
its was	Moorshedabad	Kandi Bechampore	262138. -355231	775 195 217 198	0.09	******	******	******	******	1	0.10	9185 9189	0.32	85°73 40°48	88 88 81
8		Lalbagh	-CATABLE	Recres	HARRIET	200704	runing	202111	*****	2011	Mil	0.09	0°37 0°41	65°36	810 607 813
941		Jungipore	******	0.10	******	37 (166 387511	national national	series series	200.000	Nil	NII 0.10	0:33 0:04	6'33	89°00 43°39	113
500		Jiagungs	*****	******	202070	-251,002	202001	******	*******	NII	Nil	0.10		43'13	
See See	Children	Patkabari	SANGES.	******	e) Eres	*******	Servey	******	. 455404	NIL	NII	2011	0.80	183.89	187
RAUS SUSOAL	Chittagong	Con's Basar Chittagong	0'18	500 MM	******	040000 040000	0'03	******	0.03	3	0.42	0'74	0.81	77.78	
2		Kutubdia Satkonya	200711		******	800 000	*****	******	0.30	1	0.30	6190		63'96	
	Chittegong Hill Tracts.	Rangamati	101441	******	*****	******	0104	6.90	0.88		1'80	1'80	1'21	65'80	
	A CONTRACTOR OF THE PARTY OF TH	THE PARTY OF	101	14/19	33	1	Par	1	167	123		1	100	97'08	- 8
	Backergungo	Patuakhaily Perosepore	******	*****	0 11	Street Street	*****	0-47	P0.0000	Mil	0.11	0.11	6·40 0·79	72.76 78.68	0
		Hurrisal	XXII TO	******	200.000	******	******	0.47	******	1	0.92	0.47	1,08	80.19	100

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 14th of March 1890 -coatd.

sicorciogical Division.		- The State of the	BAINFALL.								TAL.		Average	To the last	Averse
	District,	Station.	Navurday, 8th March.	Nunday, 8th March,	Monday, 16th March,	Toesday, 11th March.	Wednesday, 12th March.	Thursday, 13th March.	Friday, 14th March.	Number of rainy days.	Runfali of week.	Total rain- fall since lat of month.	total rain- fall from 1st of month,	Total vain- fall since 18th May 1880.	rainfall
BREGAL	1726	Gournaddi Bauphal	\$51.000 585.000	90/011	400.00	141241	201001	*****	*****	Ni!	NII Nii	Nii Nii		61.31	
734	Neakholly	Nonkhelly Fenny Harishpore	****** ******	*****	******	200,000	PAT - 12	******	*****	NII NII	Nil Nil 0:02	Nil 0 20	1'82 1'82	102°88 79°45	110
(39)	3	Romani	*****	*****	600 con	201503	0.08	77710X	10100	Nil	Nil	0.0Z		85°84 86'78	200
- 11	Farrandpore	Furreedpore	#44.44 #44.44	0.25	0'10	244444 024444 04444	ARTES ARTES ARTES	920000 920000 92000	NOTES ADDRESS	Nil 1	Nil D'Es O'lu	0.19 0.19	1'41 1'81 0'94	60°94 65°86 60°15	571 581 55
	Dacca	Munshinungo Dacca	anne.	*****	0.73	0:12	201000	0.08	*****	8	0.88	0.80	198	78*64	72
		Naraingunge Maninkgunge Joydebpore	986 564 986 564 986 564	400.000 600.000 620.600 620.600	0°05 0°08 0°08	002 x+6 091 xxx 188 488	700000 200000 200000	******	###### ###### ######	n n	80.0 80.0 80.0	0°05 0°09 0°21 0°21	0°96 1'31 0'56	76'50 81'21 69'58 65'76	69° 69°
	Hill Tipperals	Agartola	******	0.00		******	******	100100	144404	1	0'20	0.81	1.98	64.80	-
	Tipperah	Comilia	******	******	2 0.05	0.50	0.22	200.000	MATERIAL STREET	1	0.33	1 110	1'4	63°Lii	84 78 77
	100	Brahmunberia Ramchandra-	****	294 T47	0'14	0.87	-12+167	Sainti Sainti	******	Nil 2	Nil	0.13	1.84	83°24 61°33	04
		hasirnagar	*****	******	0'15	*****	******	103102	F9194	3	0°18	0 15		82:34	- 11
	134	Dandkands Kashs Lakekam	****** ****** ******	0*27	907 aga 444 900 909 444	0°27	647488 	0'35	444447 444447	Nii 2 1	N 11 0 54 e 35	Nil 0'54 0'35	-	62 95	
	Mymemingh	Kishorogunge	030 ha s	227468	900900	*****	*****	Section .	100000	NH	Nil	NU	0195	70'8	. Annual
		Atta (Tangail)	*****	701001	90'0	20244X 622795	*******	SAN TON SAN TON	MARKET NAME OF THE PARTY OF THE	NII	Nil 0 02	0.08	0.87	81177 97195	71° 87° 76°
		Jamulpore Netrokona Subornakhalla	*****	885 845 885 845	NAME AND STREET	Neeres Neeres	*****	111765	VAN TAN	Nu	Nil	Nil	0°55 1'06	86°01 126°47	66- 74:
		Durgapore Sherepore Town	*****	*****	ANN COLO	ANTHOR	9151495 316364	\$29. in	1941 HA	Nil	Nii	Nil	7	57.48 150.88	74
	1	Dewnegan;	*****	*****	******	******	20×102	51+144 7+1400	#21250 101264	Nil	Nil	Nil Nil	1	88 17 57 08	
Noath Burgal.	Pubna	Pubba Serajgunge	000000 Axc000	******	0108	11.6444 125.004	*****	Pinces Pelikas	149 KPK BARTID	Nil	0:02 Nil	0.52	0.90	50°45 60°59	86°
- 1	Bogra	Sherepore	257 AL	Mirane	222752	217468	******	**1443		Nil	Nil	0.62	0.44	62'70	881
	-	Bogra Panelibibi	500 000 500 000	0.03	NATION TOTAL	504 404 504 404	******	*****	# # bay	Nil	Nil Nil 0.03	Nii 0'08 0'10	0°45 0°83 0°25	71:41	61.1
	Rajshahye	Beauleah	REALES	******	*****	*****	danta	entare.	201 103	NII	Nil	Nil	0.41	86°0s	861
	No au	Nattore Naoguon Laipore	**************************************	******	0.08	49744X 48644E	335 cas A41 154	********	******	Nil	Nil	0'11 Nil	0°88 9°46	46'34 88'95 87'87	861 861 861
		Manda .	******	200101	241184 241184	334444 333400	Anagra	751706	NAVAGE SECUL	Nu	NII	Nil 0-03		36'7" 45'27	,
	Maldah	Maldah Chanchal	800 00.0 100 000	0.04	0.01	ARREST SARREST	36/357	100 to 4 5 1	Nec sign	NII	0.02	0.30	0'27	50.79	80%
		Gajoi Sibpanj	*****	0.02	0.04	******	******	herani herana melana	204.000 204.000	Nii	Nil Nil O's D	Nil Nil 0°84	0.12	38.3n 39.1n 38.11	874 P
	Dinagepore	Mohadebpore	*****	0.04	******	******	*****	THESE	124244	1	0.04	0'18	0:11	63.75	67 1
		Churamon	******		-840151 180177	989855 503605	*****	******	111112	Nit	Nil Nil	Nil Nil	0.12	A1'82 A8'87	83.2
	1	Dinagepore	REPORT RECALL	315345	*****	101154 101111	MARKAGE MARKAGE	997343 217322	*****	NII	Nil Nil	Nil	0.24	68.33	64°3
	Rungport	Thekeorgeon Bhawanigunae	*****	200.044	140.000	207,000	*****	*****	1008247	NII	NII	Nil	5	87'81	1
	terroll bons	(Gyabanda).	Rédens	NEFAME	100101	*****	251.000	177793	intied	Nil	NII	Nil	0.90	88139	62-7
1	13 3	Rungpore	20224	202.00x	20125 20125	******	MERCHAN MERCAN	117785	969698	Nii	NII	Nil	0.02	74°98 91°6	78'8 74'0
	100 p. V	Bagdogra (Nilphamari).	001111	Richards.	042001	******	104454	*****	*****	Nil	Nil	NII	0.40	88.40	86.0
	Julpigoree	Julpinoree	1.00 101	39116E	201144	101/202	100.000	242242	*******	NII	Nil	Nil	1	79'10	-
		Alipore Doom	beeres beeres	241745	******	******	******	1648614 164149	MATERIAL STREET	Nil Nil Nil	Nil	NII	0.60	119'48	1170
		Faliacatta Debiganj	101000	RESTOR	207245 207177	381115	517499 574497	ANDRES	*****	Nil	Nil	Nii Nii	1	338°23 90°14	- 1
-	Cooch Behar.	Bhagatpore (Nagrakatta).	200000	*****	251.005	TOO NOT	ANIMAN	166.640	984.010	Nii	Nil	NII	7	130-23	
		Cooch Beber.	******	gatego Savaga	151341	000000 000000	*****	367434	*****	Nii Nii	Nil	NO NO	0.48 0.48	183.9%	97:31
	Darjooling	Matabhanga	*****	475.000	*******	-24444	*****	101176	*****	Nu Nu	Nil	NII NII	0.92	123'40 118'03	106'68
	mil.	Silliguri	*****	-107155/	\$25.500 P01.001	******	*****	HITTE HITTE	******	Nil Nil	Nil Nil	Nil Nil	0.64	198'38	104.96
	V. 19	Kalimpang	00100	PRESE	920-993	-484 yeş	*****	******	******	Nil	Nil Nil	Nil	0.22	139.39	110.14
STREET STREET	Purnesh	Kimengunge	** ***	250400	245.244	44444	944450	******	274162	NI	Nil	NII	0.52	170°33	Time 1
		Purnent	Sheine herres	******	*****	22140E	******	******	*****	NII	Nil Nil	Nil 0.08	0.30	103°67 79°78	71'11 64'57
	1	Gondwara Balarampora	000000	*****	PARTER REFERE	251405	941000 141000	241101 241101	-001111	Nil	Nil	Nil	3	62.25	48.24
	North Bhagul-	Manari Kalingani	24444 2444	* Sec. 12	200000	000+01E 249.96E	35175E	******	341.00	NII	Nil	NII	7		
	pore.	Maddapore	******	522.000 000.000	212222 122462	*****	89354E 88858E	\$2.5105 \$25.050	*****	NII	NII	0.10	0.81	60°93 67°30	80°83 48°78
	Darbhungs	Protobgonj	******		*****	DELECT.	000 001	Server	201201	Mil	Nii	Nil	7	88'16	P
		Tajpore Durbhauga Madhubani	******	******	******	555. KE	121.493	******	AREATE	Nil	Nil	0°07	0.18	48°63° 80°87	46'51
-	15 16 15	Bahere	******	402004	000000	199000 199000	265,000	245000	300 mag 2	Nil	Nil Nil	0.18	18.0	93.61 70.59	45.76
h- 1	Mosufferpore	Sitamerhi	104865	001009	143 SDE	597.EC	20.4500	******	491111	Nil	Nil	0'05	0.40	88:89	2 4
Dir.		Mosuff-rpore	\$96.500 000.000	998998	100001	705040	******	000 101	******	NII	Nil Nil	0.04	0.47	65°49 48'68	48 Bu
1 17	A 100 M	Pars	000000	007543	20 040	911000	26.449	Paces .	895000	NII	Nil a	0.02	0.12	83.69 45.63	* 44.6
	CONTRACTOR OF THE	Sinhar	900×11	002455	001131 V01111	20.111	001 00	**************************************	******	Nil Nil	NII	0.34	-	90'45	-

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 14th of March 1890 -coneld.

			RATHPALL.								Ale			STORES.	197
aletserological Division.	District.	Station.	Saturday, 9th March.	Sunday, 9th	Monday 19th March.	Tuesday, 11th March.	Wednesday, 12th March.	Thursday, 13th March.	Friday, 34th March.	Number of rainy days.	Rainfall of work,	Total rain- full since lat of month,	Average total rain- fall from 1st of month.	Total rain- fall since lath May 1889,	Avar
NORTH REHAL -concluded	Chumparua	Motihari Bestiah Bagaka durburma	635 HEN 535-17 546-293 65526	909 x 92 909 x 92	942142 942142 960724	27239X 35134X 26435X 26634	**************************************	000000 000000 000000 000000	750518 150000 100000	Nil Nil Nil Nil	Nil Nil Nil	6:19 0:13 0:11 0:23	0°98 0°98	78'82 68'60 70'44 61'83	
	Sarum	Gopalgunge com n Chuprah	******	**************************************	302101 302101	293.515 2,51482 215.234	707.00 707.00	200 COS	100.104 301000 909.400	NII NII NII	Nil Nil	0°25 0°14 0°11	0.00 6.17 0.00	85-78 41-43 40-85	
SOUTH BREAK	Shahabad	Buzar Inhan Bhabocah Rassurain Arrah	200100 200100 200100 200100	0*03	period period period serves	242.005 482.115 262.115 262.115 262.115	907.00 907.00 909.000 139.00 120.000	200 100 000 100 117 100 117 100 300 100	200.000 200.000 200.000 200.000 200.000 200.000	NO NO NO NO NO	NII 0.03 NII NII NII	0°20 *0°21 0°40 0°85 0°07 0°28	0°15 6°61 9°43 0°16 0°19	67°74 62 97 80°86 90°81 40°80	
	Gya	Aurungabad Gya	*96945	xxresic	520 932	spen-2	reres	294422	200000	Nil 1	NII 0.00	0-90	0°21	88'03	
		Nowadsh Jehanabad Armul Itaudnagar Sharrghati Rainali PakriBarawan	******** ****** ****** ****** ******	0.08		39.007 6.5.07 6.5.07 6.6.07 6.6.07 6.6.07 6.6.07 6.6.07	0 7004 WESTON 022708 022708 722708 555444 690764	200 - 00 200 - 00	700 E2P 745 A A A A A A A A A A A A A A A A A A A	NO NO NO NO NO NO NO NO	NII NII NII NII NII	0°23 0°15 Nil Nil 0°05 Nil	0.789 0.12 5	89'67 83'70 84'49 86'89 89'39 17'94 81'99	
	Patne	Patna	494168	******	205.41	Retres	>44.40.	2 + 2 6 8 W	******	Nil	Nil	0.04	0.10	\$1.20	
		Hehar Barrh Bickram Hilsa	**************************************	******	-7 866 866 884 866 884 886 888	\$4,600 \$41,000	200000 200000 200000	000-11- 144111 144111	004104 001109 001109 100100	Nil Nil Nil	NII NII NII	0°19 0°20 0°30 0°38	0.10	41,50 92,69	
	Monghyr	Begoos-rai Monshyr Janui Gogra Sheikpura	201 400 201 400 240 400 240 400	###### ###### ##### YELF#	201 (20) 000 (00) 000 (00)	200 ×00 0×000 0×000 0×000 0×000 0×000	A34 144 595 144 131 440 131 440	POS -PA ATENDO ATENDO BOSTER ATENDO	001105 001000 000000 000000	Nii Nii Nii Nii Nii	NII NII NII NII	0°08 Nil 6°10 Nil Nil	0°18 0°17 0°23	41.77 39.48 80.10 48.33	
	South Bhagul- pore.	Bhag spore Rat ka Kalg me Bangaan	795 (85 190 (86 200 (86	#84.194 #84.194 #84.194	981 (00 981 (00 981 (41)	\$1,5188 \$1,5164 \$00.100 100.100	005740 005740 X15554	200709 201000 201000	000000 000000 000000 000000	Nii Nii Nii	Nil Nil Nil	0'14 Nil Nil	0.51		
	Southal Per gunnale.	Esimenal Godon Putter Nya Dosmira Jamus Mohagama Nominat	MARKANA PARKANA PARKANA PARKANA PARKANA	0°30 0 04 0°06 0°13	0°10 0°07 0°05 0°16	108-24 108-24 108-108 208-108 208-108	MANUAL PROPERTY OF THE PARTY OF	CRAFFE SOCIAL AGRAPE SOCIAL SOCIAL	\$25.00 1.00 200.00 14.03 950.00 200.00 200.00	Nil 3 1 8 1 3	Nil 6'40 0'04 0'18 6'05 0'29	0.07 6.70 8.19 6.31 0.42 6.80	0°90 0°90 0°97 0°40 0°30 0°51	49°74 78°78 87°05 40°82	
CHETTA NAG-	Hasaribagh	Pagnamos (Giridi).	280333	0.00	0-08	0.00,000	Assura	*****		1	0.17	0:34	0:40		1
		Hasarinach Semtagurah Mahudi Hills Jhoomra Hills Harks Chutra Karaguska	0.30	8°27 0°30 0°30 6°07 6°25 0°08	0'10	000000 000000 000000 000000 000000 00000	ACCUSE ACCUS ACCUSE ACCUSE ACCUSE ACCUSE ACCUSE ACCUSE ACCUSE ACCUSE ACCUSE ACCUSE ACCUSE ACCUSE ACCUSE ACCUSE ACCUS ACCUSE ACCUSE ACCUSE ACUS ACCUSE ACCUSE ACCUSE ACCUSE ACCUSE ACCUSE ACCUSE ACCUSE ACCUSE	940-84 ******* ****** ****** ******	900000 900000 200000 200000 000000 200000	1 1 2 8 Nil	0'80 0'89 0'85 0'11 Nil	0°41 0°74 0°40 0°47 1°05 0°70	0 10 0 0 0 7 0 7	30'96	
	Lobarduggs	Lohardugga Ranshi Palanow Silli Balumat Hossenabad.	100,000 100,000 100,000 101,000	0°25 0°45 0°17 0°40	0.18		\$00+64 \$00+76 60+60* 605004	**************************************	001.000 200424 200424 220400	3 1 2 1	0.40 0.48 0.82 0.40	1*40 2*35 0*94 0*40	0°4 0°6 0°3	85 88	
	dingbhoom	Garwah Chyebasus	2010 AND 1	0'13	(0.10	244441 242441 242442	. 6'88	0'24	241.035 242.048 242.048	3	0.87	0.84	0.0	S9-43	
		Chakradhar. pore. Ghateilla	ARFER	0'23	25.005	Biologic	0.00	0.83	******	3	0°20 0°27	3,00	,	80°70 54°77	
	Manbhoom	Baharapura Purulia Gobindpore Eughanaih-	17119F 18119F 18119F	0°13 0°41	0°43 0°30 0°17	000 mil	0.30	0'23 	******* ****** ******	1	0.30 0.30 0.41	0°07 6°77 0°83 0°41	0.8	44'99	
		pore. Burrabhoom Jhaida Obne	-819427 248-142 483-798	0°04 0°38 0°39	1'00	800771 800146 200481	###### ###### ######	207-27 200-127 200-127	242494 242444 241492	1 1 2	1'04 0'88 0'46	1'20 0'38 0'86		\$5°43 \$1'80 \$0'43	

Explanation.—Indicates that we rain has fallen. If the return for any day has not beer received, the corresponding space is left blank. If any of the are wanting, the corresponding spaces in the total rainfull columns are left blank.

CALCUTTA, the 18th March 1890.

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 14th OF MARCH 1890.

It has been shown in the report for the previous week that the changes of pressure and of temperature had been decidedly irregular and in many cases rather large. Hence disturbed conditions had prevailed over the greater part of the province of Bengal, and rather numerous local storms had occurred on two or three days, in many instances accompanied by rain. At the commencement of the present week, conditions looked a little more settled, and on the 8th the pressure changes were generally small except over a part of South-West Bengal and Orissa, where there was a rather decided fall. The temperature on this day had risen slowly at most stations by about one to two degrees. Winds on the 8th were had risen slowly at most stations by about one to two degrees. Winds on the 5th were generally westerly and south-westerly and light in force, but by the morning of the 9th a decided change had set in, and in many cases at neighbouring stations winds were almost of opposite direction. There had on this day been a rather rapid rise of the barometer at the central stations and a fall to the east and west, while also large and irregular changes of temperature were recorded, pointing to the fact that again conditions were becoming disturbed over the province. That such was the case was shown by the fact that a very considerable series of local storms occurred from the 9th to the morning of the loth and rain was reported on the morning of the loth and rain was reported on the morning of the lother at a linear all stations in of the 10th, and rain was reported on the morning of the latter date at almost all stations in Orissa, South-West Bengal, and Chutia Nagpur; the falls in some cases being decidedly heavy. A very rapid fall of temperature took place on the morning of the 10th, and at many stations temperature became from 6° to 10° below the normal. On this day the barometric changes were fairly uniform and pressure was generally falling, but still wind directions were very variable, showing that conditions were still in a disturbed state, and a second series of numerous local storms occurred, so that on the 11th again many stations reported rain. On this date an extremely rapid fall of pressure had taken place, equalling about a seventh of an inch at many of the northern stations, and averaging generally considerably over a tenth, and pressure became so low over North Bengal and North Behar that a distinct barometric depression was almost formed. Again, therefore, on this day conditions were disturbed in Bengal, and local storms were very numerous, and the only district which reported no rain on the 12th was Behar. Conditions continued slightly disturbed on the 12th, and again showers were reported on the 13th; but on this day conditions were a little more settled than they had been for some time previous, and on the 14th only three or four local storms were reported. Even up to the close of the week, however, conditions continued distinctly abnormal, and on the 14th over North Bengal and North Behar pressure was from a fourth to a fifth of an inch below the normal, while generally over the province the defect equalled about a seventh of an inch. Temperature, on the other hand, was from 2° to 3° above the normal over parts of the province, particularly in the northern and central districts, and below it elsewhere, the defects rising

up to an average of about two degrees in Orissa. Wind directions, however, had become more steady, and they were generally westerly and south-westerly.

Pressure.—The mean pressure for the week has been very decidedly below the normal, the usual defect ranging between eight and twelve-hundredths of an inch. The defects have been smallest in the south of Chutia Nagpur and Orissa, where they have equalled about seven-hundredths of an inch, and largest in North Bengal and North Behar, where the average defect is about twelve-hundredths of an inch.

Temperature.—Owing to the frequency of local storms with rain, the mean temperature for the month has generally been below the normal, the defect for the province averaging one

for the month has generally been below the normal, the defect for the province averaging one degree. The variations from the normal have been a little unequal, and while in South-West Bengal and Chutia Nagpur there has been a defect of about two degrees, in North Bengal, Orissa, and East Bengal temperature has either been normal or only slightly below it.

The actual temperatures during the week, the range from day to night, and their variation from their normal values, are seen in the following table, where the average maximum, minimum and mean temperatures at nine typical stations in different districts in the province are given, together with their normal values. It will be seen that the defect has been principally in the day temperatures, which have been as much as from 3° to 5° below the normal :-

Table showing the excess or defect of the actual mean temperature from the normal for the week ending 14th March 1890.

						Normal mean maximum little perature for the week colling lath March,	Actual mean maximum fem- perature for the week ending tota March 1990.	Variation of actual mean from the normal,	Normal mean reinfaum tem- punture for the week anding lath March.	Actual mean minimum tem- perature for the week ending 14th March 1896.	Variation of actual mean from the normal.	Normal mean daily tempera- ture for the week ending 14th March.	Actual mean daily tempera- ture for the week ending 14th March 1890,	Variation of actual mean from the normal,
Ouitack Calcutta Dacca Burdway Fattea Gya Furneah Mazaribagh Darjeoling	Det 100 000 000 000 000 000 000 000 000 00	997 000 200 039 039 040 600 646 200 762	007	PPT 194 984 984 849 849 849 940 940 940 940	900 600 600 600 600 600 600 600 600	PUL BUS 807 927 800 981 887 867 860	95'5 86'd 87'5 69'7 87'8 87'1 86'1 81'8 64'8	-3.0 -3.3 -3.3 -3.0 -1.7 -5.0 -2.0 -2.0 -4.9	71'4 68'0 68'0 42'0 64'2 88'5 62'3	71-7 67-4 68-9 67-9 68-3 64-1 57-4 61-8 88-5	+0'3 -1'5 -1'7 -0'8 +1'3 -0'1 -1'1 -0'8 -3'0	83'8 78'6 78'6 80'3 75 7 78'8 73'6 74'0 48'7	77°0 70°7 78°4 78°3 78°6 71°7 71°0 46°7	-1'2 -8'4 -1'8 -1'8 -1'8 -1'8 -2'8 -2'8 -2'8 -2'0